

LIVING

FOR YOUNG HOMEMAKERS



DO YOU KNOW YOUR HOME'S HIDDEN ASSETS?

BUDGET DECORATION FOR OLD AND NEW HOMES

JANUARY 1953

33 CENTS

CHOOSE
BEAUTIFUL

Bradley
LAMPS

*for a bright note of cheer...
a light alluring atmosphere*

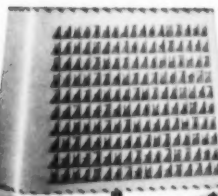
IN YOUR HOME



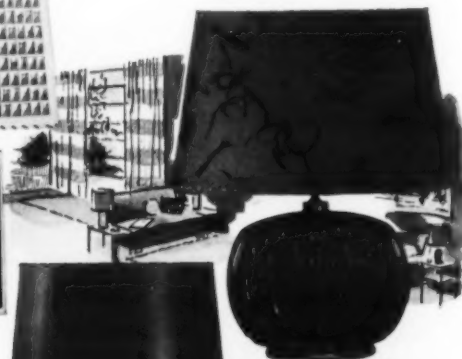
CLASSIC



TULIP



PERSPECTIVE
THRU MY
WINDOW



ESPAÑOL



HOOR GLASS

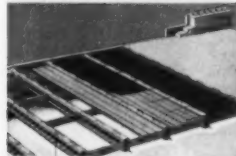
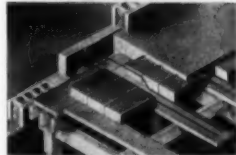


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Your home will be brighter, delightfully
cheerful, when you choose beautiful
Bradley Lamps. These new, dramatically
styled, perfectly proportioned lamps lend a
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For better living, for better protection
choose a **CONCRETE HOUSE**

YOUR FAMILY will enjoy better living and greater protection from destructive elements if you build your new house with concrete. Whatever size or style house you plan, it will be better built with concrete masonry walls, concrete subfloors and a firesafe roof.

It's easy to insulate a concrete house. Such a house provides warm winter comfort, cool summer livability and is dry in all seasons.

A concrete house stands staunch against the attacks of rats, rot, termites, rain, wind, sun and freezing and thawing, destructive forces injurious to all but the most durable construction. Concrete's durability and resistance to these forces keeps your house repair and maintenance bills amazingly low.

A concrete house also provides maximum firesafety. *Concrete can't burn!* Knowing that your loved ones and prized possessions have this protection promotes great peace of mind.

HOW TO GET YOUR CONCRETE HOUSE . . . and what will it cost?

Phone a local concrete masonry manufacturer for names of architects and builders experienced in concrete house design and construction. They know conditions in your community and can answer your questions about plans and costs. Take any plans

More than half of all home fires start in the basement. Concrete subfloors prevent such fires from spreading upward. They also add great structural strength and rigidity to your house and will not sag, warp, rot or squeak.

Your concrete subfloor can be finished with the covering of your choice—hardwood, asphalt tile, carpets (top three photos, left), rugs, linoleum, terrazzo or ceramic or rubber tile. Two lower photos, left, show construction details of concrete block joist and precast concrete joist floors, two popular types. Ask your architect or builder about them.

Even with all these advantages a concrete house actually costs less to live in because moderate first cost + low maintenance expense + long years of service = **low annual cost.**

Investigate all these plus values. Write for a free copy of "You Too Will Like A Concrete Home," distributed only in U.S. and Canada.

or sketches you have obtained from any source to an architect. Have him show you how your home—of any size or style—can be built economically with concrete walls and subfloors and a firesafe roof. **Architect-Designed Houses Stay Young Longer**

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Dept. A1-84, 33 W. Grand Ave., Chicago 10, Ill.

A national organization to improve and extend the uses of portland cement and concrete . . . through scientific research and engineering field work

Speaking of Living



BUILDER PLACE RECEIVES AWARD



NED A. COLE

Sometimes it takes the voice of experience to point out wise ways for young people. When that experience entails raising 5 children and claiming 14 grandchildren, it's to be supposed that the particular individual knows a thing or two about family living. Such an individual who has fitted his knowledge of big families to his profession is builder VIRGIL A. PLACE, whose work is shown in the article, *Meet a House Behind the Scenes*, page 26. In the last two years, no home he has built has had less than three bedrooms, and the house featured in this month's LFYH has four, a fact to be appreciated by a young family with an expansion program. As evidence of professional appreciation, THE HOUSING RESEARCH FOUNDATION OF THE SOUTHWEST RESEARCH INSTITUTE recently awarded this same house its seal of approval. The foundation, seeking to encourage building of superior houses in the \$10,000 to \$20,000 bracket, awards its seal when it feels a home displays a high standard of design, performance, and livability.

Builder Place entered general real estate back in 1922, began developing properties in 1938. He learned quickly that the modern homeowner

wants a home-in-a-package, with lot and financing prearranged, and has since made the idea into a policy. Not one to stand aside to a younger man, builder Place is president of the South Bend-Mishawaka Chapter of the Association of Home Builders which, as a result of his hustling efforts received the first prize from the national association for greatest percentage increase in membership of any chapter in the United States. For a hobby, Mr. Place runs a 300-acre farm—and makes money on it!



OFFICE PARTY SAYS GOOD-BY TO SALLY, RIGHT



CHRISTOPHER ENTERTAINS EBE, WINDOW-SHOPS DOWNTOWN



The home shown in *More than Meets the Eye*, page 42, is an example of Texan architect NED A. COLE's credo that "homeowners demand a home giving them the freedom to live their own kind of lives, a home including the facilities needed, such as space, storage, and mechanical equipment, and a home which will be easy to maintain and economical to own." His ability to practice what he preaches is self-evident. Cole, a graduate of the School of Architecture at the University of Texas, has perhaps felt the ease the wide open spaces of his state present, and consequently hates clutter and crowding. As well as an architect, he is president of Fabricon, Inc., which manufactures ready-made, built-in storage walls, in their way a precaution against the clutter caused by scattered articles.

The other day, the office force halted operations, laid aside wallpaper swatches, typewriters, layouts, proofs, and had a party. Occasion was the departure of SALLY McDONOUGH TAGER to the role of full-time homemaker and to await the stork. Staff members joined in presenting Sally with gifts for herself and the expected Tager cub, and toasted in cider and doughnuts the turning over of the figurative keys of office of entertaining and table decoration from Sally to GINA NEWMAN, former merchandise promotion editor.

In the course of a Western junket recently, editor-in-chief EBE had a chance for the first time to meet a personality long known to LFYH readers—Christopher. EBE found the photogenic young son of the Joern Gerds, of Salt Lake City, Utah, just as unabashed and enthusiastic about all the wonders of childhood as his parent's camera has recorded. Taken downtown to view a department store window that had been decorated around a theme of toys Christopher would like to find in his Christmas stocking, the young man disregarded the fact that the windows had been named in his honor, but flattened his nose avidly against the pane, wishing for the wonders his eyes were unbelievably feasting on.

MARCH OF DIMES



JANUARY 2-31

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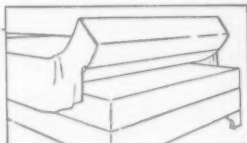
Enjoy Fieldcrest

Trousseau Luxury

with top and bottom fitted sheets

You needn't be a newlywed to enjoy the perfect luxury of Fieldcrest top and bottom fitted sheets—their extra comfort, their extra convenience. Or the elegance of those fabulous Fieldcrest towels, blankets and bedspreads that make any woman feel delightfully pampered. So let yourself go. Have another trousseau.

Fieldcrest prices are a boon to anybody's budget.



New Fieldcrest top fitted sheet slips over foot of mattress, won't pull out at night, leaves plenty of toe room. Sides tuck in or not as you prefer, with plenty of fold-over at top to protect your blankets.

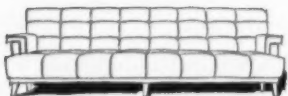


Fieldcrest
FITTED SHEETS

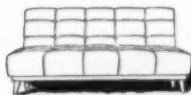


*Sheets · Towels · Bedspreads
Blankets · Electric Blankets · Hosiery
Karatun Rugs · Rayons*

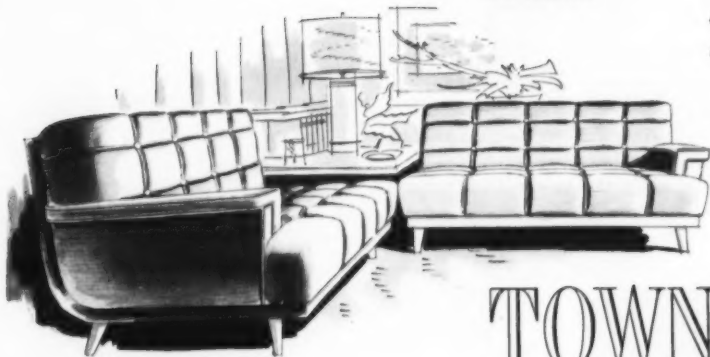
Fieldcrest fitted sheets cut bed-making to a fraction of the usual time. Slip mitered corners over mattress—no centering, no waste motion. Bed stays tucked in all night long. Single or double sizes in pink, blue, green, yellow or white. Matching pillow slips.



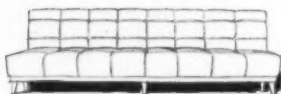
sofa with arms about 139.50



love seat about 79.50



2-piece sectional about 169.50



armless sofa about 119.50



3-piece sectional about 169.50



occasional chair about 49.50



lounge chair about 69.50



Another superbly styled series of fine living room furniture by Stratford. Correlated in design and fabric for countless room settings.

The New TOWN-AIRE Group

*designed by
forest wilson*

Featuring Strato-flex Seat Construction—a specially designed unit with Double-Coil Springs on a No-Sag Spring base. Luxurious rubberized hair is used throughout. The most advanced development in modern seating comfort.

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FURNITURE CORPORATION

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Division, Futurian Manufacturing Company
American Furniture Mart, Chicago 11, Illinois.

Eastern Plant, Hoffman-Stratford, Souderton, Pa.

Prices vary depending upon fabrics. (Prices quoted are only possible because our dealers must purchase our line by the carload. Otherwise prices would be nearly doubled.)

"WHAT TO LOOK FOR WHEN YOU BUY UPHOLSTERED FURNITURE"

Send 10c in coin to Dept. L-1 for fact-filled illustrated booklet plus brochure showing Stratford Furniture Corporation pieces.

RANCH OAK

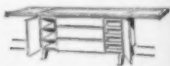


... exciting new
dual-purpose units
solve living
space problems

You'll love the "hidden assets" of the dual-purpose units in the Ranch Oak Functional Group.

Now you dine-sleep-sit-graciously, in the same room.

Each piece of Ranch Oak is lovingly crafted of superb white oak. The natural distinctiveness of the wood, the clean contemporary styling combine to give you informal furniture of timeless beauty. See Ranch Oak dual-purpose units at leading furniture and department stores now.



CHEST-BUFFET. Leaves raise into place to make this handsome piece a server. Drawers and cabinet store linens, silver, wearing apparel.



HUTCH-BOOKCASE. Placed on the floor, it's a stunning bookcase. As the buffet, a charming hutch displaying your china.



STUDIO BED. A deep-seated, luxurious sofa by day... a comfortable roomy bed at night. Blankets and pillows are stored in the convenient bedding compartment which forms the back of this versatile piece.



COFFEE-DINING TABLE. Converts at ease from a low, attractive coffee table to a spacious, elegant dining table. As end leaves are lifted, concealed set of legs descend to raise the table to standard dining height.

**RANCH
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For lasting comfort and beauty

TEXFOAM[®]

FOAM RUBBER

The finest in luxurious cushioning



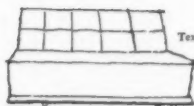
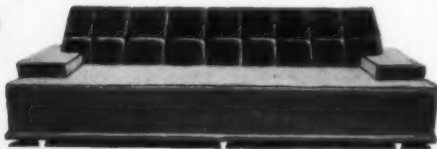
Luxurious comfort is yours, today and for years to come, in this beautiful new Penthouse Group by Stratford. Each piece is cushioned with Texfoam, the finest foam rubber that never shifts, lumps or mats down.

Texfoam comfort is a more refreshing comfort—a cooler comfort. The Special Texfoam Process makes a foam rubber that breathes more freely . . . stays buoyantly cool and fresh . . . day after day, year after year.

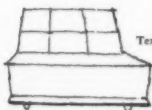
For luxurious comfort be sure the furniture you buy has Texfoam cushioning.

THE SPONGE RUBBER PRODUCTS COMPANY

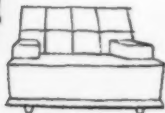
53 Derby Place, Shelton, Conn.



Texfoam for luxurious comfort



Texfoam for cooler comfort



Texfoam for lasting comfort

All pieces are from the
Penthouse Foam Rubber Group

Stratford Furniture Corporation
Division, Futurian Manufacturing Company
American Furniture Mart, Chicago 11, Illinois
Eastern Plant, Hoffman-Stratford, Souderton, Pa.

Hospitality by *Great Western*

Flatter your guests! Serve Champagne by Great Western—traditionally the hallmark of gracious hospitality. And your guests will surely compliment your excellent taste. You will set the pace among your friends with this sparkling Champagne. New York State's finest Champagne is surprisingly inexpensive, too. Try Great Western—America's largest selling Champagne.



Glasses by
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Made by the Makers of
GREAT WESTERN America's
Largest Selling Champagne

And to serve it right—write to Mrs. Charles
D. Champlin, Wine Counselor, for our
new booklet: "Table Magic with Wines."

Great Western

WINES SINCE 1860

THE PLEASANT VALLEY WINE COMPANY, RHEIMS, HAMMONDSPORT, N. Y.

Here's "RUG MAGIC"

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Olson Rugs
Special Low Prices!

It's All So Easy! Write for beautiful FREE Olson Rug Catalog in full colors that tells how your materials are picked up at your door and sent at our expense to the Factory, where...

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Two-Sided Broadloom rugs with the thrilling twist-weave beauty and "feel" of luxury-priced wool rugs—at a fraction of the cost.

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OLSON RUG CO., A-8, Chicago 41, Ill.
Please mail Book of Rugs, Model Rooms Free to

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Address.....

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Send your
Materials
See for yourself

7 DAY
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A PIECE OFF YOUR MIND

GOOD JUGGLERS

Dear LFYH:

After juggling budgets, mortgages, etc., there just wasn't enough money to build our garage and other additions to our home. Though we were convinced that it would be foolish to attempt anything of the sort without the services of an architect, we just couldn't afford one. But we thought you might be interested in how we have recently solved that problem.

In our local paper we spotted an advertisement placed by two young architectural students—one, an M.I.T. graduate, the other, a refugee from Prague, both studying at Princeton. We contacted them, explained our difficulty, told them what we wanted. They drew up plans, specifications, etc.; we took them to the bank; the bank said "yes," and they started to work, doing the actual building themselves, and planning to complete the garage before going back to school.

They are doing a marvelous job. One is the practical engineer of the combination, the other, the artist. Together, they are perfect. They are learning a lot and so are we, besides having the satisfaction of watching the work in progress. Next summer we hope to have them back to do our breezeway and kitchen.

My thoughts on this subject are that too few people in our circumstances appreciate the real necessity for having professional advice in remodeling and building, and are as prone to shy away from architects as from decorators. If they only realized how much time and money these experts can save one, I'm sure they would have more widespread acceptance, and there'd be fewer eyesores and so much sameness on the landscape.

These boys really could set an example for students like

themselves all over the country. We are terribly enthusiastic, of course, and feel you will be too.

Mrs. Calvin Williams
Southbury, Connecticut

OCTOBER'S DIVIDENDS

Dear Editors:

I have wanted to write to you ever since I received my first issue of LFYH last June but, somehow, putting my enthusiasm for it down in black and white is not the easy task I had thought it might be.

May I join the hundreds of other readers and subscribers in saying "thanks" for a magazine that is truly designed for young homemakers possessing a rather inadequate budget as stacked against the somewhat staggering expense of furnishing a brand-new home from scratch?

Magazines are my weakness. I subscribe to many, but none, absolutely none, can compare to LFYH. Where else could one obtain so much enlightenment and inspiration for a mere thirty-five cents a month?

May I add a further thought that, for me, your October issue is the best one yet. My home is being furnished in provincial and early American. Imagine my delight in finding so many pages devoted to this mode of decoration (*Across A Traditional Threshold, An Up-To-Date Spirit, and Post-haste Rescue For A Posthouse*).

Among the features I enjoy are *Our File Box*, *Your Money's Worth*, and *Living Quarters*.

Mrs. Walter W. Walker, Jr.
East Whittier, California

Dear Sirs:

My home was built in 1886 which is old for Florida, and I am trying to modernize it but keep the original atmosphere. Your magazine is running over with suggestions and ideas. The illustrations

[Continued on page 10]

Dream kitchens priced to enjoy now!



This budget-priced, all-steel Youngstown Kitchen features Electric Sink with Jet-Tower® Dishwasher.

YOUR DREAM KITCHEN can come to life in your house now—whether you're thinking of buying or building a new home or already have a home of your own.

Look at the Youngstown Kitchens features that give you *extra* leisure time and make your workday easier. Broad counter areas and roomy storage space . . . where you need them most . . . speed you through kitchen hours.

Baked-on enamel finishes wipe clean easily—no time-wasting, difficult scrubbing. Youngstown Kitchens Jet-Tower® Dishwasher does dishes for 6 in less than 10 minutes. And Youngstown

Kitchens Food Waste Disposer banishes garbage forever. You'll cut kitchen hours in half!

What's more . . . you'll enjoy these work savings a housetime, because your lovely Youngstown Kitchen is built of sturdy, long-lasting steel.

There's a kitchen-planning expert near you who can show you how a Youngstown Kitchen can be installed for less than you think. Send coupon below.

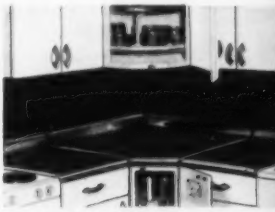
MULLINS MANUFACTURING CORPORATION
WARREN, OHIO

Youngstown Kitchens are sold throughout the World

*Reg. U.S. Pat. Off.

Whether you BUILD, BUY OR MODERNIZE

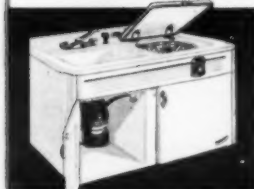
. . . a Youngstown Kitchen can be yours for less than you'd think. And then your home will be modern today, modern to stay—with marvelous conveniences like the Youngstown Kitchens Jet-Tower® Dishwasher and the Food Waste Disposer which banishes garbage forever.



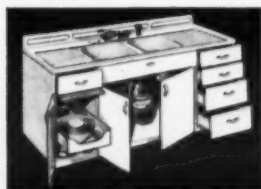
New Rotary Corner Wall Cabinet utilizes corner space to full capacity. Three rotating shelves provide plenty of room for dishes or other items . . . and turn together to bring desired articles within easy reach. Rotary Corner Base Cabinet also puts otherwise-wasted corner space to work.



Youngstown Kitchens



Youngstown Kitchens 48" Electric Sink combines Cabinet Sink and Jet-Tower® Dishwasher. Jets of booster-heated water, hotter than hands can stand, get dishes hygienically clean fast! Disposer, rinse spray at extra cost.



Youngstown Kitchens Cabinet Sink, 66" DeLuxe Twin, makes kitchen work easier. Top of one-piece, acid-resisting porcelain-enamelled steel. Twin bowls, two big drainboards, swinging mixing-faucet, rinse spray, sliding shelf, huge storage space. One of 18 luxury models.

Call Western Union, Operator 25, and without charge get the name of a nearby dealer.

Mullins Manufacturing Corporation
Dept. LYH-153, Warren, Ohio

Please send new kitchen-planning, decorating idea book.
I enclose 10c to cover cost of mailing. (No stamps, please.)

I plan to buy a house ☐ I plan to build a house ☐ I plan to modernize ☐

NAME (Please print) _____

ADDRESS _____

CITY _____

ZONE _____

COUNTY _____

STATE _____

© 1953 Mullins Manufacturing Corporation

LOST

SWINGING DOORS STOLE MY CORNER...



"Modernfold" doors by New Castle Products
Furnishings by L. E. Ayres & Company, Indianapolis, Indiana

FOUND

"MODERNFOLD" DOORS Brought it back!

At last a permanent place for my sewing machine! This bedroom corner makes a perfect spot—thanks to "Modernfold" accordion-type doors.

And don't you let swinging doors rob you of valuable floor and wall space. Use "Modernfold" doors to free that space for placing additional furniture—more gracious living. Thousands of satisfied homeowners have been doing just that for years—and, incidentally, making their rooms lovelier than ever.

Large "Modernfold" doors are "Movable Walls"

So, use them to divide large bedrooms in two... separate living room from dining area... or wall off guest room, nursery or television nook. Whether you use "Modernfold" doors as space-saving closures or movable walls, you'll find them priced to fit your budget. For full details, look up our installing distributor under "doors" in your classified phone book... or mail coupon. Sold and serviced nationally.

NEW CASTLE PRODUCTS, NEW CASTLE, IND.

St. Charles, Modernfold Doors
1915 Grange Avenue, Marshall



Copyrighted New Castle Products 1952



A piece off your mind

[Continued from page 8]

and concrete information certainly inspire me to make my dream come true.

You also have my highest praise and appreciation for your October issue. The Vent-a-Hood arrangement (*A Kitchen Full of Hobbies*) is just what I have been shopping for.

Mrs. Charles E. Brush
Interlachen, Florida

COURAGE AND CONVICTIONS

To the Editors:

Well, old friends, you have revolutionized our ideas, streamlined our ideas, shaken us into a frame of mind where the emphasis is on TODAY (*Young People in Government*, August, 1952), our own day and age. And, we love it!

Up to this time you have always been about three jumps ahead of us, spurring us into breathless dreaming. For once, we got there first on this government problem. We've been over it again and again but can't jump the hurdle of the budget on this full participation in politics. May we respectfully inquire whether or not those admirable families have other means of support should the public fail to see eye to eye with them in an election year?

We hope we don't lack the courage of our convictions, but we can't seem to escape the hold that habit has upon us and our four "young-uns"—the habit of eating, that is! I know we're not the only oysters in this stew.

More power to you and those exemplary contemporaries of ours.

Mrs. Patricia Belanger
Chicago, Illinois

EDITOR'S NOTE: Although these young people in government have professions—law, teaching, newspaper work, private business, for example, which they left and to which they could return—they face the same risk all elected officials do in the political field.

OVERSEAS REPORT

Dear Sir:

My husband and I are both avid fans of your magazine. Each month we seem to find the one

house that suits our dreams and the rather flat pocketbook that goes with air force living. More and more we take note of the new trend in living at home which is so much a part of our life over here in the Far East. Our congratulations for a splendid magazine.

Mrs. J. L. Wiederhold
Kyushu, Japan

Gentlemen:

I would like to receive your booklet, *Everything In It Is You*, which I saw advertised in a magazine that found its way to Korea. I don't have the 10c but hope someone collects foreign money. It's good exchange and worth 16c.

Charles J. Ward
Somewhere in Korea

EDITOR'S NOTE: A soldier in Korea sent a 1,000 won note in lieu of 10c to John Widdicombe, Jr. for their booklet, *Everything In It Is You*, offered in their advertisement on our September issue.

Dear Sirs:

We enjoy your magazine so very much. It is such a pleasing blend of modern "and" period, with so many fresh ideas for accenting, blending, and brightening. It has become a standard reference in our house.

Mrs. F. M. Clingan
Honolulu, Hawaii

HAPPY MEDIUM

Dear Sirs:

LFYH is a happy answer for those of us who don't care for "Cozy Cottage" advice and can't afford the East 57th Street décor.

Mrs. Charles Chipman, Jr.
Easton, Pennsylvania

ADDED INCENTIVE

Dear Sirs:

The September copy of LFYH is so full of good ideas and, as a veteran with small children, we are particularly intrigued with *Norwood Village*. Seeing how well others have done gives us the push we need to start ourselves.

Gilbert M. Wood
Providence, Rhode Island

New Castle Products
P.O. Box 754
New Castle, Ind.

I'd like to know about "Modernfold" door advantages for my home. Please send me your residential folder.

Name.....
Address.....
City.....County.....State.....



1 Douglas Fir Weldwood Plywood
... Available in various thicknesses from $\frac{1}{4}$ " to $1\frac{1}{4}$ ", you can use different interior and exterior grades of this low-cost Weldwood product to add value and convenience to all parts of your home. It is light, extraordinarily strong and is easy to saw. It takes nails and screws close to the panel edge without splitting. Use it for roof and wall sheathing, siding, cabinet doors, furniture, counters, fixtures, built-in conveniences, interior paneling, sub-flooring, underlayments. How many economical ways can Douglas Fir Weldwood Plywood help improve your home?



2 Novoply* ... You'll find countless ways to use this excitingly new all-wood material of wood mosaic beauty. Novoply is virtually warp-free... ideal for use in interior panels, walls, screens, partitions and fine furniture of all types. Use it, too, for sliding doors of cabinets, closets, cupboards—and as a base for plastic laminates in counters and table tops. It comes in $4' \times 6'$, $4' \times 8'$ and $2' \times 8'$ panels, $\frac{1}{4}$ " and $\frac{1}{2}$ " thick. It can be nailed, screwed, planed or drilled by ordinary hand tools. See this sparkling new wood product today. That's the only way your imagination can fully grasp its great possibilities for you.

*Trade-Mark Registered (Patented) other brands possible



3 Plankweld® ... You can have beautiful pre-finished wood paneling in any room ... and do it yourself, easily, economically ... with Weldwood Plankweld. Here is real, natural wood ... oak, birch, Philippine Mahogany, Hazelwood ... pre-cut to 6, 7 and 8-foot room heights in $16\frac{1}{2}$ " width. Factory-finished, no painting or staining is needed. Concealed metal clips hold Plankweld to any interior wall ... plaster, wood or wall board, without visible nailing.



4 Hazelwood ... With this sensational new Weldwood development you can have a beautiful wood-paneled room far less than you thought possible! Hazelwood is a new pre-finished blonde hardwood in $4' \times 8'$ panels or in Plankweld form. What uniformity of color! What beautiful graining! No paint, no staining, no redecorating will ever be needed. Savings? You can panel a $13\frac{1}{2}$ -foot wall with one package of Hazelwood Plankweld costing only \$47.50.

5 $\frac{3}{4}$ " Decorative Weldwood

Hardwood ... Built-in cabinets, furniture and book shelves of Weldwood add nice finishing touches to the Weldwood-paneled room. And for this purpose, you can get three-quarter-inch Weldwood of the same woods as the wall paneling you choose.

Remember, all Weldwood Plywood is guaranteed for the life of your home, so be sure to look for the famous Weldwood trade-mark stamped on the material itself.

See these 7 Weldwood Products and many other Weldwood materials at any of our 60 distributing units from coast to coast. Or visit your Weldwood Dealer today!



6 Hardwood Weldwood Wall Panels

... These quickly-installed panels come in a variety of fine cabinet woods ... oak, birch, walnut, Korina® and many others ... in a large assortment of sizes. They go right over new walls or old ... never need redecoration. Yet their rich, warm beauty is surprisingly low-priced, especially when you put them up yourself. In many cases a complete average size room can be paneled for as little as \$150.00.



7 Weldtex® ... Weldtex is Weldwood Plywood, striated by a patented process to give the charm of antique wood with a crisp modern feeling. Large $4' \times 8'$ Weldtex wall panels make small rooms grow up. Weldtex Ceiling Squares $12" \times 12"$, $16" \times 16"$ and $24" \times 24"$ go up quickly, easily ... enable you to use recessed lighting. Weldtex Exterior Siding makes your home weather-tight with maximum beauty ... and for minimum cost. It does not check.

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☐ Plankweld ☐ Hazelwood ☐ Weldtex

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It stays put...like the famous **BOTTOM** Contour!



FAMOUS PACIFIC CORNER

... strongest, longest-wearing type!
Arrow shows point of greatest strain on corner. Tape on Contour prevents rips and tears. Pacific makes the strongest and longest-wearing type of corner in fitted sheets. Loved by millions, the famous Bottom Contour has four of these boxed corners to hold it taut. It can't wrinkle... can't pull out!



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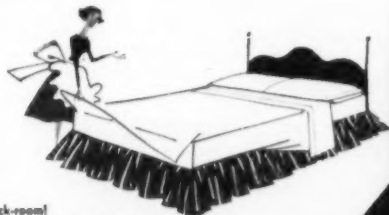


Gives twice the sleeping comfort—
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Expansion Fold gives "kick-room"—
it never binds your feet.

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Sheet!

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Center City, Pa. 19106



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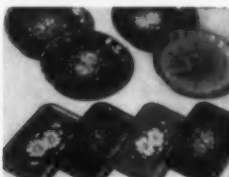
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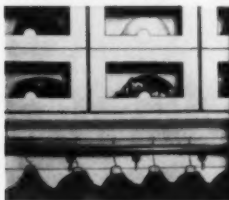
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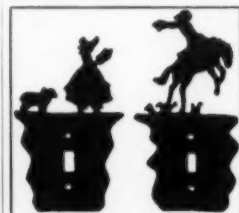
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Very Victorian, this lovely frame that is oval in shape, a fine reproduction of an antique. Made of cast iron, it is finished in white which will blend with any room setting. The overall measurements are 12" high and 9½" wide; will hold photographs that are 5" x 7". \$3.95, ppd. Foster House (L-46), 15 Cole Ct., Princeville, Illinois.

Trim, tailored pieces of stainless flatware, the best-looking and most practical to use for every informal table setting. Three parallel lines are the only hint of pattern on these otherwise smooth, straight pieces. Fork, knife, salad fork, soup and tea-spoon, and butter spreader (not shown) comprise the place setting: \$8 in roll and gift box, ppd. House of LeWitt (L-46), New Britain, Conn.



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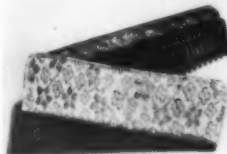
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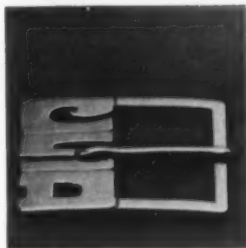


Going places? Teen-agers and even younger folk will beam with pride having their own duffel bag for traveling. Made of simulated leather, it is gaily plastered with colored travel stickers. Whether their plans are for plane, ship, train, or just around the corner, this overnight bag is sturdily stitched, has loop handles, zipper closing, 8 1/2"x14", \$2.95, ppd. **Treasure Mart (L-46), Treasure Mart Bldg., Hillside, N. Y.**





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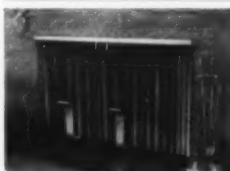
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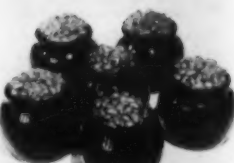


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Bright bronze has been hand-crafted into these dishes to use as trivets. Wonderful for hot plates, potted plants, teapots, wall decoration, they have an openwork, circular design, three low feet to raise them just off the table top. \$3.25 each, \$6 the pair, ppd. From Southwestern Gifts (L-46), 630 East Alameda, Santa Fe, New Mexico.

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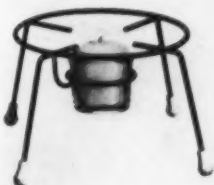
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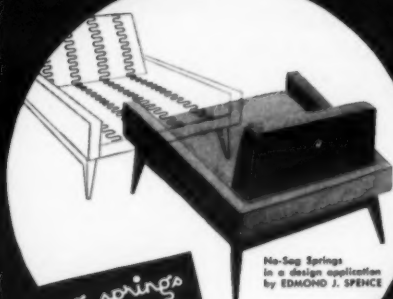
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BEST IN BOOKLETS

Our young readers are vigorously (and reassuringly) individualistic, true, but their letters reveal a common bond: their belief that comfort and charm are essentials in successful homemaking. For them we review, in each issue, booklets full of professional know-how on achieving a smoother, better-run ménage. Whenever you write for them, we would appreciate your mentioning LIVING For Young Homemakers.

DECORATION AND HOMES

Well-chosen carpet can Make Your Decorating Dreams Come True. To assist you on the many fine points which help it to do the most for your home, when to select plain and when a patterned carpet, how it should lie, and how to fit your color scheme around this most important purchase are some of the questions discussed in these 24 pages of informative material. The Gullistan carpets in every room setting will round out the visual picture. A glossary of carpet terms completes the discussion. A. & M. Karagheusian, Inc. (L-1B), 295 5th Ave., New York, N. Y. 10c.

The right home for you is the theme of Town and Country Homes to Fit Your Budget. sixty-two pages of plans and designs of contemporary and traditional homes in a wide price range, along with articles on financing a home, fundamentals of good construction, what to look for in a plan, etc. If you decide one of the homes is exactly what you've been looking for, you can obtain blueprints from the authors, Allied House Plans, Incorporated (L-1B), 90-04 161st St., Jamaica 32, New York. 50c.

Best laid plans for an extra living room, or a workshop in the basement, often go awry because of moisture-ridden walls. **How to Make Basements Dry, Beautiful and Livable** is the answer to that problem, and to a host of others, including questions of lighting, space planning, partitioning, and ceilings. Whether you've a laundry, a rumpus room, or dark-room in mind, this booklet will aid your plans, lend ideas. Medusa Portland Cement Co. (L-1B), 1000 Midland Bldg., Cleveland 15, Ohio. 50c.

FROM THE KITCHEN

Your menu is different during the winter round of parties. For gourmet treats that are economical to serve, here are succulent recipes for pre-cooked in-the-can South African Rock Lobster. Piping-hot rock lobster à la king or taste-teasing lobster tarts we guarantee will warm your guests on frosty nights. South African Rock Lobster Association (L-1B), 271 Madison Avenue, New York, New York. Free.

Complement your meals with just the right wine. It's easy when you keep the **B & C Wine Guide** on hand when menu planning. One turn of the dial shows exactly which wines best bring out the flavor of your festive foods and gives the character of the suggested wines for your own identification. Browne-Vintners Company,

Incorporated (L-1B), 500 Fifth Ave., New York, N. Y. Free.

Spice 'n' everything nice—that's what this booklet's about. **The A-B-C of Spice Cookery.** If you're of the school that believes herbs and spices are wonderfully exotic but somewhat mysterious in their proper usage, you'll be changing your school tie after reading this booklet. A large introduction lists all the well-known (and some not so well-known) herbs, spices, seasonings, tells their correct uses. This is followed by 33 pages of exciting recipes. Davis Manufacturing Co., Inc. (L-1B), 113-115 W. Jackson Ave., Knoxville, Tenn. 25c.

Modern methods of Preparing Baby's Formula make life much easier for the young mother, safer for baby. You will want to read this outstanding booklet on the most effective ways of sterilizing and preparing baby's bottle. Completely illustrated and authoritatively written, it will prove a real help for your baby's care. The Pyramid Rubber Co. (L-1B), Ravenna, Ohio. Free.

CONSUMER'S GUIDES

Buying glass? If so, you'll be wise to read first, **Crystal Gazing for Sparkling Tables**, a booklet that not only tells you how to shop for glassware, but also tells the story of how fine pieces are made, how to set a table for dinner parties, and how to use crystal accessories around the house for interesting decorative effects. Fostoria Glass Company, (L-1B), Moundsville, West Virginia. 10c.

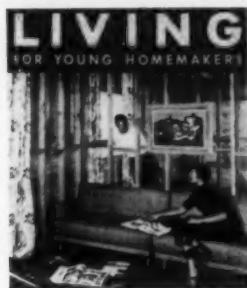
Smoother the cares of ironing day is the aim of **A New Way to Easier Ironing**. . . the **Light Touch**, which tells and shows in pictures the correct and safe way to iron garments made of the new man-made fibers and acetate. The proper way to handle seams and darts, gathers, buttons, how to hang the finished garment are clearly depicted. Celanese Corporation of America (L-1B), 180 Madison Ave., New York 16, New York. Free.

Carpet wisdom is two-fold—how to buy and how to preserve after you've bought. Both subjects are expertly covered in **Carpets—Their Selection and Care**. By illustrating furniture with a complementary carpet design, correct correlation of room period with carpeting style is shown. In another section, proper routine cleaning of carpets and safe treatment for common stains are discussed in detail. Bigelow Consumer Service Bureau (L-1B), 140 Madison Ave., New York 16, New York. 10c.

JANUARY 1953 35 CENTS

LIVING

FOR YOUNG HOMEMAKERS



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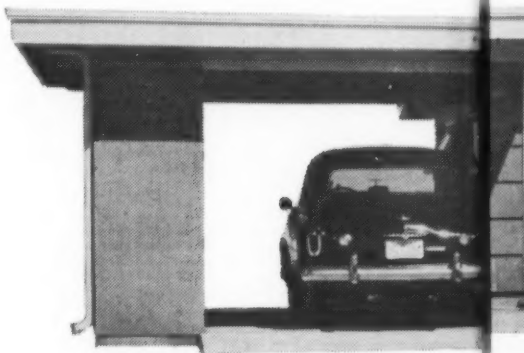
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Without a moment's hesitation the average young man can tell you the number of cylinders in his car and any number of details about its mechanism. His wife will very likely know the fiber content of her wearing apparel and will notice carefully the qualities of workmanship that gave it style and wearability. It is paradoxical that the same young couple may have spent months contemplating the purchase of a home without ever realizing that a house is also a highly complex mechanism and that it, too, has "seams." In the average house there are more than 3,200 physical parts, each of which contributes to its quality and wearability. To get the most for your money in buying or building, both in the original investment and in the continuing operation, it is well to have knowledge beyond the easily apparent parts and materials. Admittedly, this would take considerable time and exhausting research. Instead, what we suggest is a measured degree of analysis. For example, it may not be vital for you to know exactly how a stud is "toenailed," and yet it is highly important that you understand how your house is insulated. Being on intimate terms with the trap under your kitchen sink may not be mandatory, but it is well to have more than a casual acquaintance with the kind of roofing you have over your head. Such a look behind the scenes into the hidden assets of the most important parts of your home will reassure you that the best materials have been, or are being, used in each case. The majority of builders are proud of the workmanship and materials they use and realize that the more a homeowner knows about his house, the better he is able to care for it and understand its operation. An important hidden asset in a ready-built home is the integrity of the builder. From the houses he has built, find out whether he uses intelligent methods, knows new construction techniques and materials of proven worth—in short, whether he knows how to give you the best house in your price class. If you want an individually-built home, it is recommended that you go into the whole matter of home building well in advance with architect and contractor. The importance of finding able help in planning and building cannot be overstressed since the detailing of a house, the specifications, and so many aspects of the plan are not readily noticeable to the untrained eye. For instance, the expansibility of a house, its circulation, dimensions which allow the use of stock building materials to cut costs are all implicit in the plan. There

are also intangibles in home ownership itself, which are, in a sense, hidden assets and should be considered. A home of your own is security. Rents and living costs may rise, but mortgage payments do not. Another asset is the cash equity in a house—it is like money in the bank. When the owner has paid off the mortgage, his only housing expenses are taxes, insurance, and maintenance. Money otherwise spent in rent becomes an investment in home ownership. A home also offers immeasurable peace of mind in the knowledge that provision has been made for a family. The opportunity for individual expression which it



affords is another intangible of great value. In analyzing the hidden assets of any home, balance your needs against your financial status. And remember that family needs, modes of living, and building materials change with the times. Whether your home was designed and planned by you or whether it was bought ready built, it will likely not fulfill the needs of a lifetime for your home now and in the future. The important thing is *not* to take your home at face value. Dig in and make sure what is behind the scenes functions as an asset rather than as a liability.

DO YOU KNOW A HOME'S HIDDEN

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N ASSETS?

For some of them, see the next 12 pages

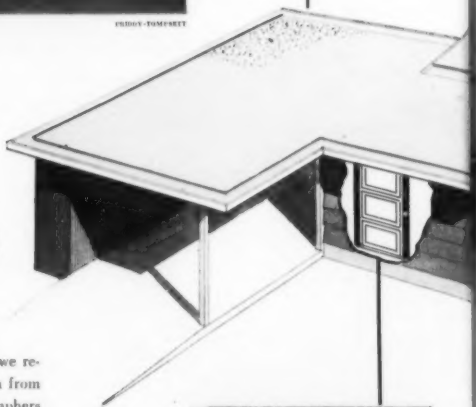


EDMUND-TUMBLEY

MEET A HOUSE BEHIND THE SCENES

To show dramatically just where the hidden assets of a soundly-built home are, we recently singled out a house in South Bend, Indiana, and had it under the camera from the moment ground was broken until the last pair of draperies was hung. Photographers turned sleuth, snapped pictures of the many details that are forever hidden to the eye once they are covered up in the progress of construction. Cameras recorded the placing of footings and foundation; as each item was drawn from the stockpile of materials, they closed in on its positioning in the structure. Peering under the concrete slab and behind the walls, photographers captured not only the materials but the methods of construction which make this house a real value. One hidden asset which could not be photographed was the foresightedness of Place & Company, builders of the house. Some time ago they realized that there was an unsatisfied demand for a home that anticipated the needs of families with three or four children and an income under \$5,000 a year. They have developed a four-bedroom house priced at \$13,500 in suburban McKinley Terrace. Response to the first of 500 of these homes has been enthusiastic. Statistics on families who have already settled there bear out the builders' predictions: average income is \$1,200, average age of husbands is 31 years, of wives, 29; most couples have one or more children, plan sizable families. Since exactly this kind of family is our primary interest, we chose one of the McKinley Terrace homes for this "hidden asset" experiment. Not stopping when construction was complete, we went ahead, and in conjunction with Ries Furniture Store, of South Bend, furnished the house as it might be lived in comfortably by any young family, at a cost they could afford—\$2,625.

DESIGNED AND BUILT for a growing family with a modest income, this home boasts a sizable living room, an all-purpose room, four bedrooms, a bath and a half—1,232 square feet of well-organized living space. Exterior is cedar shingles stained a greenish gray. Eave overhang was scaled to cut out glare of summer sun, but afford full benefit of sun's heat in winter.



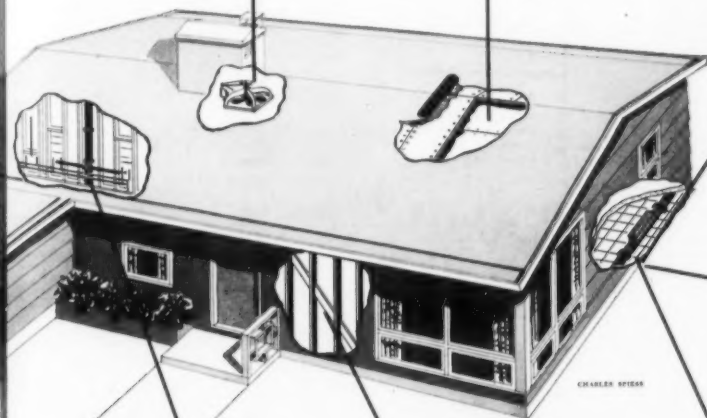
SPECIAL JIG is designed to hold window framing members, flashing, window casing, and sash, including hardware and weather stripping while unit is being assembled. Jig permits shop fabrication which can be done off-season and in bad weather, thus cutting costs.



VENTILATING FAN (Hunter) over central section of the house does its important task out of sight. During hot weather it removes the layer of hot air at ceiling level and boosts it out through ventilating louvers in chimney block, in turn, inviting cool air in through open windows



ROOF HAS many hidden assets: fifteen-pound roofing felt is applied over one-inch board sheathing, covered with aluminum foil Sisalkraft, in turn, topped with two-inch insulation batts. After this, four-ply, built-up roofing is added, then tarred and surfaced



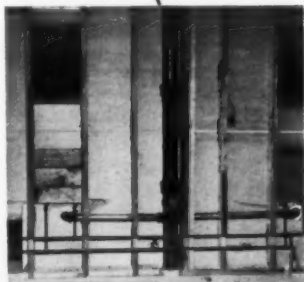
CHARLES HYDER



EARLY STAGE of construction shows footings and foundation walls in place. In center, the plenum, or chamber beneath the furnace, has been located, with vitreous clay pipes radiating out to feed a perimeter loop. Workmen are cementing bell joints



HEAT OUTLETS have been attached to openings made in clay pipe. To these connecting links, registers will be fitted in finished floor. Concrete will be poured over reinforced mesh to keep slab from cracking



CUTAWAY OF BATHROOM WALL shows how, by correct framing (in this case 2" x 6" studs), a flush finished wall can be achieved and still allow sufficient space within it to accommodate plumbing stack, hot and cold water pipes, flexible conduit, junction boxes, soil vent, and framing for the medicine chests



ON-SITE FABRICATION of wall sections brings together pre-assembled window frame units with remainder of framing. Shown here are framed and sheathed exterior walls being raised into place on the slab. Cutaway section of exterior wall in the house sketch (above) reveals diagonal bracing which provides additional stability



BEFORE CONCRETE SLAB can be poured, many materials have already been put in place which will never be seen. Gravel fill over bare ground keeps water drained beneath slab. Over gravel are Sisalkraft and reinforcing mesh, covered with four inches of concrete, float finished

[Continued on the next page]



FOIL-BACKED wallboard serves as reflective insulation. Primary function is as a vapor barrier to prevent destructive condensation



IN CONSTRUCTING bathroom ceiling, perforated tape over joints provides a key to which cement adheres, avoids visible crack



MASTIC IS APPLIED quickly to underside of joints with a caulking gun to hold ceiling board in place while it is being nailed



WINDOW-FRAME ASSEMBLY, removed from jig (seen on previous page), has been included in site-fabricated framing for wall



SPACE WAS ARRANGED to fit the requirements of different families. Dining area can be used as an all-purpose room or as indoor play space for children. Large bedroom can be divided into two rooms by use of accordion door. Carport, which has two large storage closets, can also be a covered terrace. House has been approved by the Housing Research Foundation of the Southwest Research Institute

BUILDING DATA

ARCHITECT: WILLIAM H. WEIST
CONTRACTOR: PLACE & COMPANY, INC.

Foundation	concrete slab on grade	Atlas Cement
Water- & dampproofing	Sisalkraft under-slab	Sisalkraft Products
Floor surfacing	Maticco asphalt tile	Mastic Tile Corp.
Roof surfacing	4 ply built-up cedar shingles	Lloyd A. Fry Co.
exterior	1/2" foil-backed wallboard	Weatherbest Corp.
interior		National Gypsum
Insulation	25/32" Fir-Tex sheathing	Fir-Tex Insulating Board Co.
thermal	2" Fiberglas batts	Owens-Corning Fiberglas
Paints		O'Brien Corporation
Doors		
exterior	flush birch	Mohawk Flush Door
& interior	Ratona flexible doors	Hough Shade Co.
closets	Dexter	National Brass
lock sets	Stanley	Stanley Works
hinges	wood, awning-type made to order	
Sash	Thermopane made to order	Libbey-Owens-Ford
Glass	made to order	Truscon Steel Co.
Window screens	forced-air perimeter system	
Heating	gas-fired furnace	Majestic Co., Inc.
controls	thermostats	Minneapolis-Honeywell
ducts	vitrified tile pipe	American Vitrified Products

[Continued on page 35]

opposite

VIEW OF LIVING ROOM from door reveals a scene of uncluttered comfort. Major pieces of furniture are spritely patterned sofa and two armless chairs upholstered in a plain nubby fabric (all by Kroehler). Placed conveniently at hand near the sofa is a nest of tables, and between the chairs a two-drawer step table, both in light mahogany (by Hekman). Walls here and in the rest of the house are dry-wall construction painted soft, warm shades (O'Brien paint). Shelves for books and bric-a-brac were made of lengths of standard shelving attached to the wall with special metal brackets (Reflector-Hardware). Furniture, rugs, and accessories throughout are from Ries Furniture Store, South Bend

[Continued on the next page]



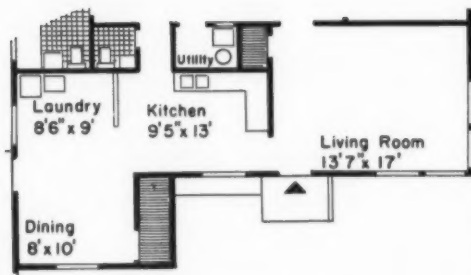
MEET A HOUSE BEHIND THE SCENES *continued*



SEATING PIECES were placed to take advantage of the pleasant panorama beyond the large windows which form one corner of the living room. (Windows are Thermopane throughout.) Traverse draperies of *Valdemar* fabric, in shades of brown mingled with a black-and-white design, afford greater privacy



TO CREATE AN AISLE from the front door to bedroom hall (right, unseen), chairs and table were located about three feet from the wall. This directs traffic through the living room without disturbing whatever social activity may be in progress. Open passageway next to front door leads to kitchen, dining room



KITCHEN CLOSE TO CENTER of living area means that from her headquarters a housewife can keep a finger on activities everywhere. Grouping of utility room, coat closet, and kitchen in center of house offers free circulation on four sides, providing alternative routes for a busy family from one room to any other



WORKING, COOKING, AND LAUNDRY sections of house were each arrayed to save unnecessary steps. This view is from the laundry toward the working area. The *Servel* refrigerator is placed on the other side of the living room wall in photograph at left. Cabinets are Kitchen Maid, floor, marbledized asphalt



ARRANGED here for dining, this 8' x 10' space is also well located for use as a recreation or all-purpose room. Wallpaper, used also on door to storage closet, is same pattern as curtain fabric (both by Warner). Oak table and chairs and hutch buffet are by Tell City Chair

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RIBBED GLASS PARTITION is a token barrier which separates laundry and kitchen. It also allows the *Magic Chef* range to be located within easy distance of sink and refrigerator. Corridor leads to sleeping quarters, door to lavatory



IN ITS OWN CHEERFUL CORNER opposite the dining space, this laundry neatly and compactly accommodates *Bendix* washer, dryer and ironer. It has same soft yellow walls, same flooring, same brown-and-yellow patterned curtains and wallpaper as the kitchen and dining areas of which it is a part

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GEORGE KNALL

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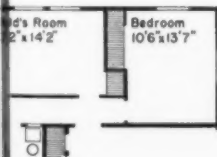
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HIDDEN ASSETS of this home are by no means limited to construction features. Under the bedspread are three others: young home-



maker makes the bed with Pacific's top and bottom contour sheets. Beforehand she has put on Acme's reversible, fitted mattress cover



White and right

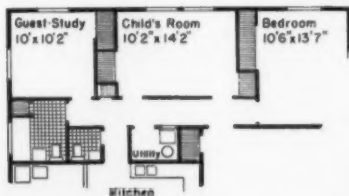
CEILING in master room and in the rest of the house (except baths and utility room) lends an informal note in keeping with the ranch style of the house. This construction is also economical, since ceiling and roof are one. Blending agreeably with expanses of wood overhead are light-finished mahogany double dresser and bed headboard flanked by smaller chests (all by Kroeh). A vigorous note against expanse of solid color is Seneca Textured fabric which picks up the dominant room color of walls, bedspread, and Sanford cotton rug.



[Continued on the next page]

MEET A HOUSE BEHIND THE SCENES *continued*

ONE OF HOME'S MAIN FEATURES is a sleeping space for children, planned so that it can be one large room or, by closing a *Modernfold* door, two separate cubicles. Here it has been decorated as play and sleeping quarters for one or two children. The bed, combination table and stools, play screen are part of the *Swing Line* group made of birch and decorated in bright colors. Table top is *Tempered Presdwood*, which has a hard, smooth finish. Corners of pieces are bent *Masonite*, which provides rounded surfaces as a precaution against accidents. Closet has *Rotox* flexible door. Two walls are cedar, the other two are painted turquoise



(Continued from page 28)

Electrical		
panel boards	flush type	Wadsworth Electric Mfg., Inc.
switches		Bryant Electric Co.
Plumbing		
water supply pipe	copper	Chase Brass & Copper
water heater	gas fired	National Economy, Continental Water-heater Co.
fixtures		American Standard
Medicine cabinet		
Kitchen	<i>Miami-Carey</i>	Philip Carey Mfg. Co.
equipment		
garbage disposer	<i>Disposal #FA-14</i>	General Electric
cabinets	<i>Kitchen Maid</i>	Kitchen Maid Corp.
range	<i>Magic Chef</i>	American Stove Co.
Laundry equipment		
	<i>Bendix washer, dryer and ironer</i>	Avco Mfg. Co.

When you buy, build or remodel a house, be sure you know the brands of material used. They are the best protection for your total investment.

WHERE THERE ARE several bedrooms in a home, one of them can profitably be used as a combination guest room, study and sewing room. Color scheme is suitably reposeful for either a family member's solitude or a guest's slumber. Walls are a rich beige. Deltex rug is gray, and curtains have a seaweed pattern in brown and coral. Tweed-covered sofa bed (Sealy), black metal chair (by Herman Miller), oak desk, and sewing machine in a similar finish complete grouping



See Your Guide to This Issue for further information

We have come to regard the marvels of modern living as so commonplace that the only time we stop to consider one closely is when it breaks down or fails to satisfy our demands on it. This is certainly the case of electricity in the home. Largely hidden from view, in the walls or in the ground, the network of wires that brings this essential service to us becomes almost nonexistent in our frame of thinking. And yet, probably no part of the homes we live in should be planned so closely in terms of the probable duties it will be called upon to perform, and in terms of possible future needs. The time to realize that your home requires a more adequate wiring system, that the capacity of the service wires is limited, is before the walls have covered the system from view and easy alteration. With the constant addition of new electrical equipment to the repertory of time- and work-saving devices, there should be adequate wiring capacity available to handle

the possible increased load. The first requirement of an adequate wiring system is a suf-



WIRING: WAYS AND MEANS

ficient number of branch circuits of proper sizes to accommodate lighting and appliance needs. If there are not enough circuits, the system becomes overloaded, and instead of the electricity flowing smoothly at full voltage, it is wasted through useless overheating of the wires. The result of overloading is blown fuses or a tripped circuit breaker. A good, safe rule for adequate wiring is to have one "general purpose" or "lighting" circuit for every 500 square feet of floor plan, plus a separate circuit for each major electrical appliance, such as refrigerator, freezer, range, etc. In planning a wiring system, therefore, it is important to know both the demands of the equipment to be installed immediately and what major appliance purchases will be added in the years to come. If the man of the house has a power workshop in mind, if the purchase of a complete home laundry with washer, dryer, and ironer looms in the future, circuits should be installed while the house is being constructed, not after the appliances arrive. In addition to the "lighting" and large appliance circuits, circuits should be installed for handling small appliances. Outlets should be planned for convenience in the kitchen, laundry, and dining area, where portable appliances are used most often. Two such circuits, each supplying outlets in all three areas noted above, are sufficient for homes up to 1,500 square feet.

It is important that all circuits be protected by fuses or circuit breakers of correct capacity. The general purpose circuits, if No. 14 wire is used, should be protected by 15 ampere fuses; the small appliance circuits must contain No. 12 wire and can be protected by 20 ampere fuses. The single circuits which handle major appliances require various sizes and types of fuses or circuit breakers, depending on the rating of the individual appliance and the size of the wire used in the circuit.

Intelligent planning of a wiring system includes, in addition to technical correctness, regard for convenience and optimum use of the appliance. Outlets should be located to allow flexibility in furniture arrangement, and easy movement of lamps without the necessity of extension cords. Work areas in kitchen and laundry should be provided with shadow-free illumination.

It is a good idea to include in a wiring plan what is called "path of light" control. Double switches are provided for main lights in the home so that it is possible to turn a light on at the entrance of, say, a hallway, and off at the other end. This system eliminates the necessity of ever entering an area of the house that is dark, and gives both a sense of security when entering an occupied house and protection against harked shins.

On the facing page is a study of the wiring arrangement of the home discussed in *Meet A House Behind the Scenes*. The house contains slightly more than 1,200 square feet, excluding the carport. The minimum requirements for the electrical service entrance—as determined by experts—for a house in the 1,000 to 2,500 square feet category normally call for a capacity of 85 amperes in the service entrance wires and service equipment related to handle that load. The 85 amperes are sufficient to satisfy the requirements of an average young family. They provide for lighting, plug-in appliances (refrigerator, ironer, mixer, roaster, etc.), an electric range and water heater, plus additional major appliances up to a combined rating of 6,000 watts. The extra major appliances provided by the builders of this house were a washer, a clothes dryer, ironer, and an automatic electrical mechanism for the furnace. This utilizes the full 6,000 watts. If other appliances, such as a summer cooling fan or air conditioner are planned for future installation, proper arrangements for a larger capacity electrical service entrance should have been made during the building process. Different families present diverse electrical needs; any study of a wiring system should be considered as a guide only. In the final analysis, the hidden assets of wiring have two aspects that should always be kept uppermost in mind: that the amount of power should be relative to the needs of the homeowner, and that an optimum distribution of the electricity be demanded, regardless of the amount.

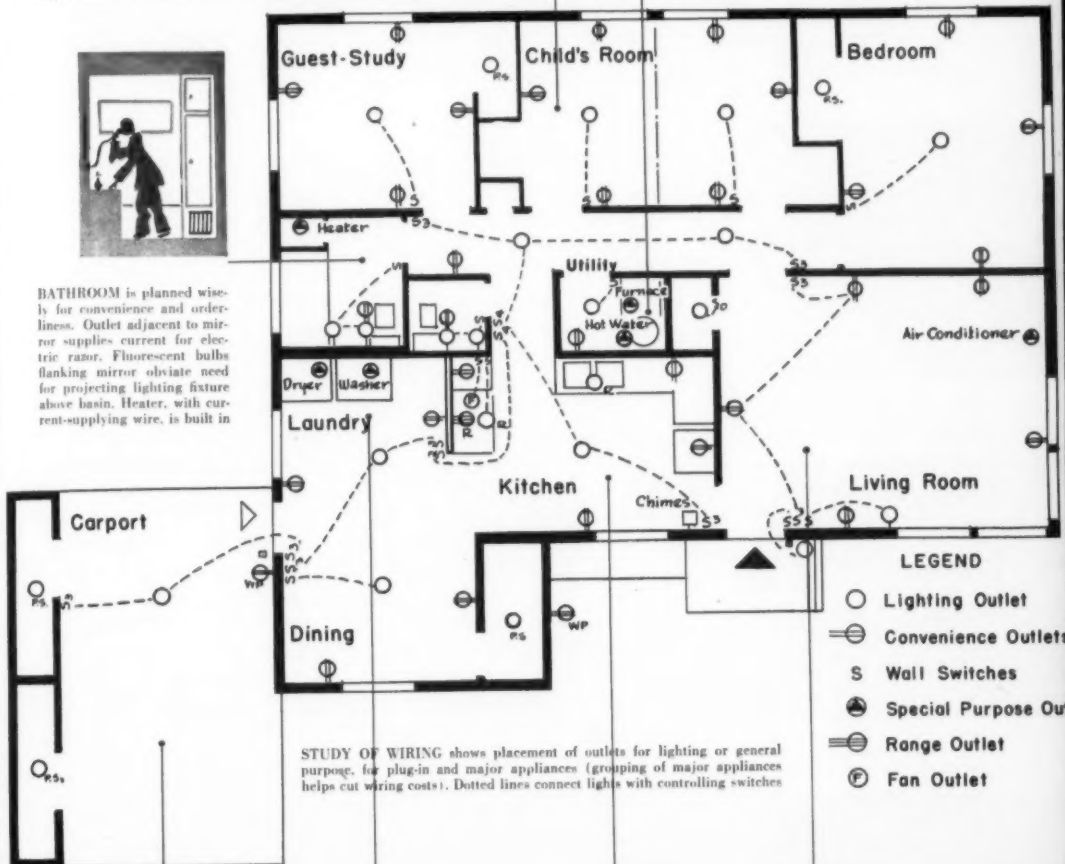
BEDROOM in profile shows outlets arranged to allow easy placement of bed-reading lamps, plus plug-in for electric blanket. Aside from ceiling and closet lights, there are other electrical convenience outlets located around the room for plugging in radio, clock, and vanity lamps, without extension cords



UTILITY ROOM encloses two of the home's major appliances, the furnace and the water heater, in addition to a summer cooling fan, with its necessary wiring. Such built-ins as the fan, should always be thought about and provided for before construction begins. Grouping appliances may lower wiring costs



BATHROOM is planned wisely for convenience and orderliness. Outlet adjacent to mirror supplies current for electric razor. Fluorescent bulbs flanking mirror obviate need for projecting lighting fixture above basin. Heater, with current-supplying wire, is built in



STUDY OF WIRING shows placement of outlets for lighting or general purpose, for plug-in and major appliances (grouping of major appliances helps cut wiring costs). Dotted lines connect lights with controlling switches



CROSS SECTION OF HOUSE gives an idea of the many ways electricity is ready to serve the modern home. Carport is equipped with light and outlets; adjacent laundry simplifies washday with its

automatic washer and dryer, ironer; modern kitchen is a virtual monument to electricity as a servant; living room depends on adequate wiring for many of its comforts—lights, television, and air conditioner

HARD FACTS..

Consider appearance,
permanence and maintenance
when you are selecting
the floors for your home

High on the list of decisions a family must make in building a new home or remodeling an old one is the choice of floors. Floors keynote the appearance of a home; the over-all decorative effect of a room is planned from the floor up. They must be strong and durable and should not require replacement or costly repair. The maintenance factor is important, too. Floors must be easy to keep clean and economical to restore to their original appearance after severe wear or neglect. As with every other building material, flooring must be the best quality in the price range that is set.

Hardwood floors are one of several types to be considered. Over the years, they have been found to meet the most stringent decorative and maintenance requirements. In the past, hardwood floors were considered more or less a luxury. Today, the techniques of mass production have brought the price well within the reach of any home buyer. Surprising as it may seem, hardwood flooring is found in a wide variety of species, sizes, and grades. The most popular and well-known species is oak. The preference for oak is due as much to its natural beauty as to its legendary strength and durability. It is an open-grain wood with well-marked patterns which result from strips of cells, known as wood rays, which extend radially in the oak tree. White oak or red oak, or a combination of the two, can be used. There is little difference between the two in quality and performance and only a slight difference in appearance. Both are light in color, red oak being somewhat more uniform throughout than the white.

Among the other hardwoods used for floors, hard maple is exceptionally strong, has great resistance to abrasion, and takes finish well. Beech and birch are, in most respects, similar to hard maple. They are close-grained, with fine, uniform texture. Heavy and strong, they can take hard wear. Pecan, a member of the hickory family, hardest of all hardwoods, is a good choice for rooms which bear unusually heavy traffic.

Styles of flooring break down into four types: strip, plank, parquet, and unit-block flooring. Among these there is a wide price range, depending not only on the type, but on such other factors as the species and grade of wood and whether it is unfinished or prefinished. Generally, strip flooring, the style most commonly seen in homes, is the least expensive. Maple and oak run close in price; beech, birch, and pecan generally are available at a slightly lower price level. At slightly higher cost than unfinished flooring is finished hardwood, requiring no treatment at all after installation. In gen-

S.. ON HARDWOOD FLOORING

eral, prices of hardwood flooring are quoted in terms of 1,000 board feet, about the amount needed for the average five-room home.

Strip flooring comes in narrow pieces that may range up to several feet in length. Oak, maple, beech, birch, and pecan strips come in many thicknesses and widths, in most cases with tongue and groove. Most popular thickness is 25/32-inch, most popular width is 2¼ inch. Naturally, the narrower the strip, the more time is required to install flooring. While strip flooring is available with square edges, tongued and grooved strips are preferable since they afford greater strength and solidity.

Plank floors are informal in appearance and especially appropriate for ranch-style homes. These floors have wood pegs simulating the dowels by which the plank floors of colonial days were fastened. Usually of walnut, these pegs are glued in holes on top of countersunk screws which hold the planks in the subflooring. Like strip flooring, most planks are tongued and grooved at both sides and ends. Customarily, they are laid in random widths, ranging from three to nine inches in multiples of one inch. Solid planks, generally of oak, come in a standard thickness of 25/32-inch; veneers are obtainable in 7/8-inch size.

Parquetry is the most elaborate and expensive type of hardwood flooring. Basically, parquetry consists of short pieces of wood arranged in geometric designs, usually squares, rectangles, and herringbone. By varying color tones of one species of wood, or by using different species, unusual effects can be achieved. Installation is an intricate project requiring skill.

Unit-block flooring is a form of parquetry, resembling it in that small strips of flooring are arranged in squares and rectangles, but differing in that the pieces are not laid individually. The designs are assembled at the flooring mill into unit blocks. Usually three, four, or five pieces of wood make up a block, the pieces being held together by metal splines at the back or ends. Units are laid in a pattern in which the grain of one block runs at right angles to the grain of those immediately surrounding it. The applied cost of unit-block flooring is considerably less than that of parquetry, since it can be installed much faster and easier.

All hardwood flooring is available in many grades and at many varying prices. As grading is based primarily on the appearance of wood, it should be noted that even the lowest grades will form good-looking floors and possess adequate strength, durability, and resistance to wear. [Continued on page 90]



UNIT-BLOCK flooring is modern production's answer to expensive parquetry. The blocks combine decorative pattern with sturdy surface



STRIP FLOORING, most popular of hardwood styles, is available in a wide range of wood types and grades to suit all purposes



PLANK FLOORING is ideal for ranch homes or rooms decorated in early American style. Simulated dowels hark back to colonial days



1. First sweep floor thoroughly, then cover it with underlay, running strips lengthwise, same direction in which flooring will be laid. Start nail in subfloor 8" from side wall.



2. Start a second nail same distance from side wall at opposite end of room. Stretch string between nails. First course of flooring will be lined up exactly parallel to this string.



3. Place first strip of flooring parallel to string, the grooved edge $\frac{1}{2}$ " clear of side wall. Face-nail strip, set nails, then toenail through tongue, spacing nails every 10 inches.

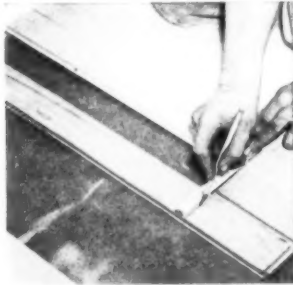
HOW TO INSTALL A HARDWOOD FLOOR

Putting down a hardwood strip floor is admittedly an exacting job, and one that presumes a knowledge of carpentry and demands precise, careful workmanship. In the photographs, young homemakers, Lou and Jo Ann McClelland, show correct method of installation. After measuring area to be covered and deciding on type of flooring and underlay (a good quality building paper, preferably 15-pound asphalt saturated felt) to be used, the following tools should be assembled: hammer, crosscut saw, carpenter's folding rule, square, sanding and polishing machine (one may be rented in most communities). For average flooring, a

supply of eightpenny bright wire flooring nails or cut nails or preferably screw nails, will be needed. In a new house the flooring should be installed after all construction is finished. If flooring is oak, use a paste wood filler after putting on a floor seal. With other finishes, apply filler first. In all cases, shoe molding must overlap new flooring by at least $\frac{1}{8}$ ". Best procedure is not to install or replace baseboard until flooring is laid. Have flooring delivered four or five days before it is to be installed and pile it loosely in house. Particularly if weather is cold or damp, keep house heated at 70° so wood will remain dry until ready for use.



4. In succeeding courses, fit grooved edges of strips to tongues of strips already laid. Toenail as before but do not face-nail.



5. When length of flooring is too long to fit, measure strip as shown, mark and saw off *tongued* end, install strip in position.



6. Stagger joints so none is nearer than 6" to any in preceding course by arranging approximate positions before nailing strips.



7. After nailing three or four courses of flooring, place a piece of scrap flooring up against tongue edge of pieces in last course and then hammer to make installation snug



8. To fit flooring at doorjamb place strip against frame. Measure gap between face of last course laid and groove edge of strip, saw notch to depth of gap and width of frame



9. Lack of hammer room bars toenailing of last two courses. Face-nail last course, forcing tightly against previous one. If excessive gap remains, cut strips to fill



10. Sand at least twice, first with No. 2 paper, then with No. 1/2. For extra smoothness, sand third and fourth times with finer paper. Sand with grain, at least after first cut



11. Edger is recommended for sanding near walls, in closets, on stairs, and other small areas. In some areas, such as behind radiator pipes, it is necessary to sand manually



12. Dust room after sanding, including doorframes and window sills, so finish will not be speckled. Painter's tack rag is best for dusting. Avoid excessive walking on floor



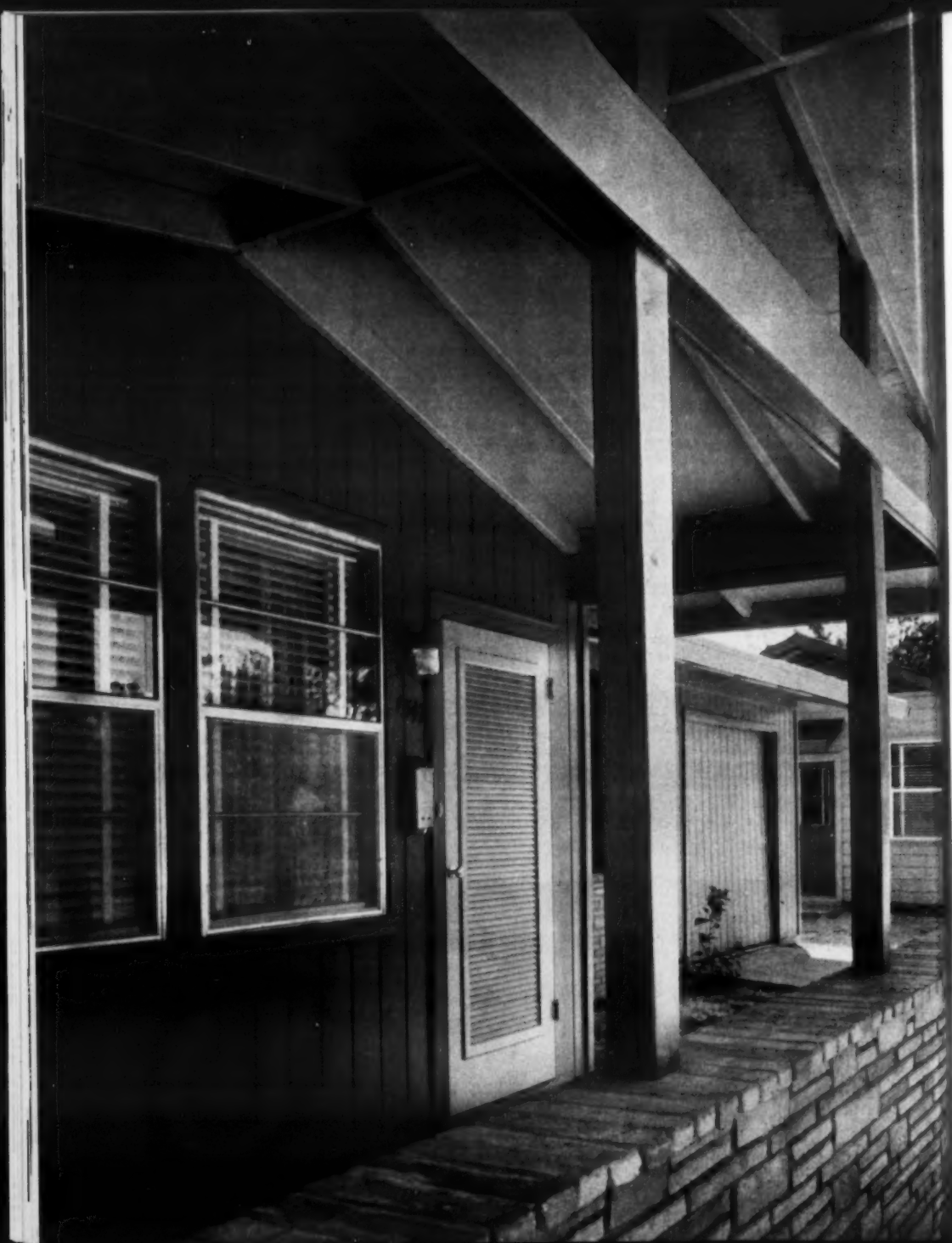
13. One modern, easy way to finish floor is with floor sealer, applied with lamb's wool applicator or mop. Follow directions closely



14. Wipe off excess sealer with a clean cloth after covering a few feet of floor area, or rub into wood (one or two coats), if so directed



15. Last steps in flooring operation is to buff with steel-wool pad on polishing machine, and finally to polish with brush attachment





MORE THAN MEETS THE EYE

A home buyer is sure of getting his money's worth when the unseen qualities designed and built into a home match its surface impression. This is the case with the homes which Ned Cole has designed and P. S. Luttrell has built in the Oak Forrest addition of Houston, Texas. Since the war, Cole, a young architect who understands the needs of young families, has been working closely with builders throughout the Middle and Southwest to raise the quality of the ready-built home. Builder Luttrell is similarly dedicated. With the 3,000 homes planned for Oak For-

A young architect and a builder in Houston have packed a \$13,850 home with values

rest he has schemed tirelessly to wring the last penny of value out of the building dollar. A result of these combined efforts is the home shown here, a three-bedroom house of 1,695 square feet (including the garage) which sells for \$13,850. Other readily discernible features include hardwood flooring throughout, a 12' x 20' breezeway which has nearly year-round use in the Texas climate, a kitchen with space for dining, more than adequate closet stor-

age space, two large lockers in the garage. Of less immediate notice are these nonetheless valuable attributes: a heating system which can easily be converted for year-round air conditioning; an attractive, contemporary roof design in which the pitch creates space for heating ducts and for added ventilation in summer; a trussed roof which allows nonbearing walls so that planned changes in room arrangement can be made later with only detailed finishing. These and other features provide a home whose hidden and visible assets add up to most comfortable living.

opposite and above

LOW ROOF AND EARTH COLORS of masonry and painted vertical siding skillfully relate this compact home to its plot. The front entrance and three living-dining-room windows are sheltered by a deep continuation of the roof, sheathed with plywood and supported by posts embedded in the waist-high masonry wall. These posts and horizontal bracing add decorative as well as structural importance to the front of the house. A planter box continues the masonry line across a breezeway which ties main part of the house and garage together and provides covered passage between them

[Continued on the next page]

BUILDING DATA

ARCHITECT: NED A. COLE
BUILDER: P. S. LUTTRELL

Foundation	4" concrete slab on gravel fill	
Waterproofing	2-ply mopped felt	
Floor surfacing	ceramic tile	Mosaic Tile Co.
bath	<i>Tile-Tex</i>	The Flintkote Co.
kitchen	oak on 1 x 4 sleepers	
all others	set in asphalt	
All walls	2 x 4 studs	
Roof	built up	
surfacing	white marble chips	
Surfacing	wood siding, masonry	
exterior	planting box	
interior and ceiling	<i>Sheetrock</i>	U. S. Gypsum Co.
Insulation	walls and ceiling: blown	Johns-Manville Corp.
Paint		
exterior	<i>Super Kem-Tone</i>	O'Brien Corp.
interior		Sherwin-Williams
Doors		
exterior	slab	
interior	slab, hollow core	
closet	<i>Ratox</i> flexible doors	Hough Shade Co.
	sliding door units	Fabricon, Inc.
hardware		Schlage Lock Co.
Sash	aluminum double hung	
glass	double strength, B grade	Pittsburgh Plate Glass Co.
Heating	forced warm air, gas fired	
	<i>Atlas</i> furnace	International Sales Co.
controls	thermostat	Minneapolis-Honeywell
Plumbing		
water heater	gas fired	Mission Appliance
fixtures		Briggs Mfg. Co.
Kitchen		
equipment	range and refrigerator	Frigidaire Division of General Motors Corp.
Built-in units		Fabricon, Inc.

When you buy, build or remodel a house, be sure you know the brands of material used. They are the best protection for your total investment.

Building materials and methods are often hidden assets which a homemaker can study profitably



HARDWOOD FLOORING was laid over wood sleepers set in a coating of asphalt on the concrete slab. This provides an air space under the floor which cuts down moisture, preserves floor. No subflooring or underlay of any kind need be used. Workman in middle room is nailing strips to sleepers, one in foreground is arranging lengths of loose flooring



PIPING AND LAVATORY BASINS are hidden under built-in counter, creating storage out of unused and unattractive space. Shelf is removable if waste pipe repairs are needed



FURNACE AND WATER HEATER are set on a platform in a room adjacent to bath. Forced warm-air furnace is updraft type, lower louver in closet door serving as cooled-air return



L-SHAPED PLAN carefully segregates living, cooking, and sleeping areas of the house. Sizable living and dining room is augmented by a 12' x 20' breezeway which serves as a semi-outdoor living room much of the year in the Texas climate. It opens onto an outdoor terrace at the rear. Kitchen has its own outside door, its own dining corner, ample space for appliances. Third bedroom is used in this case as a den, guest room, study

For details on how these rooms were budget-

decorated, see the following eight pages



AN INFORMAL second living-dining room, the breezeway was decorated as an inviting spot for relaxation. Comfortable settee and chairs in natural redwood (by Utility Cabinet) are appropriate in this almost-outdoor setting; three-piece redwood barbecue set against screened wall is well suited for impromptu summer meals and parties. Green *Twiltex* fiber rug is a practical floor covering over the concrete slab



opposite

HERALDING THE FRESH COLORS used throughout the house, the living-dining room offers a bright and cheerful welcome. This view from dining corner across to the breezeway highlights the thoughtfully placed seating pieces—tweed-covered sofa, side chair, and club chairs by Stratford Furniture. Softening the entrance to the much-used outdoor sitting room are lengths of Riverdale's *Tonga* print, the same fabric used for draperies at the front windows (right, unseen). Use of the same warm green cotton carpet (Sanford's *Havana*) unifies the two areas of this dual-purpose room, also dramatizes the gleaming hardwood floors. Lamps are by Lightolier



FROM FRONT DOOR, view of living room shows entrance to bedroom hall (right) which can be closed off by a *Ratox* door on a traverse system. The opening at left is the dining section, showing pass-through to the kitchen



JOHN ROLAND



DINING FURNITURE has been arranged to make the most of 8' x 9' space. Drop-leaf table has been placed along the wall to create ample passage between kitchen and living areas. Teacart stands by for easy wheeling through kitchen entrance, equipped with a flexible door (directly above). Partition between dining room and kitchen is a factory-built storage wall, installed as a unit. Sliding panels allow convenient access to the kitchen

KITCHEN has its own dining corner, a convenience for families who like to serve breakfast or snacks with a minimum of effort. Wrought-iron table and chairs have graceful construction which gives the appearance of greater space; glass table top is cleaned easily and quickly after children's meals. Dining room is on the other side of built-in storage wall



WORKING AREA of the kitchen has appliances organized into a step-saving triangle. Sink is at one point, Frigidaire electric range and refrigerator at the other two. Between sink and range a counter and storage unit is efficiently placed. A long, spacious counter runs the width of kitchen's end wall with more than ample storage cabinets above



AQUA AND BEIGE TONES of the master bedroom create the kind of warm, cozy atmosphere which is conducive to relaxation. Next to the bed is a "gossip bench," a combination night stand and seating piece; other pieces in the grouping are a six-drawer chest and a stool used as an end table next to a chaise longue



FITTING FLAWLESSLY into this scene of slumber are pieces from Mengel's *First Edition* group, made of oak with a soft cinnamon and white finish. To prove that decoration has hidden assets, too, when spread is removed the bed proudly shows its candy-striped Wamsutta sheets and General Electric blanket



JOHN HUGHES



SECOND BEDROOM is the children's domain, decorated to be their own private sitting room by day as well as sleeping quarters by night. Study and play are not overlooked: sturdy, solid pine desk is an invitation to schoolwork; the gun and holster sets are fitting for descendants of Texas cowpunchers. Lounges are twin-size Simmons box springs and mattresses on Harvard frames, covered in brown *Malabar*, a hard-wearing cotton which blends with the *Somerset* drapery fabric—a red, chocolate, and beige pattern. These same colors are mingled in the cotton rug (by Chenille), here used wall to wall with the *Smoothedge* tackless method of installation (*below*). In this hidden asset, a carpet gripper, consisting of plywood strips with steel pins, is anchored parallel to walls, the rug underlay, flush to it. Rug is then stretched tight and attached





UTILIZATION of all possible storage space is one of bath's main features. Sliding panels beneath lavatory counter hide shelves for supplies, those above conceal toilet articles and medicines. Over toilet tank, a wall cabinet has been installed in an otherwise unused spot



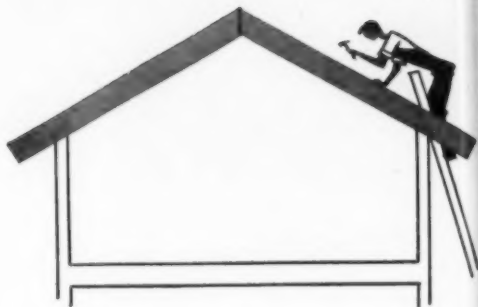
THIRD BEDROOM in this Houston home has been decorated to serve many purposes. Simmons' lounge is a seating piece or bed, as needed. On the opposite wall, the desk-chest (left), another piece from the *First Edition* group, carries out the study-sleeping room theme. Color scheme is an interplay of gray and persimmon; draperies pull across window wall



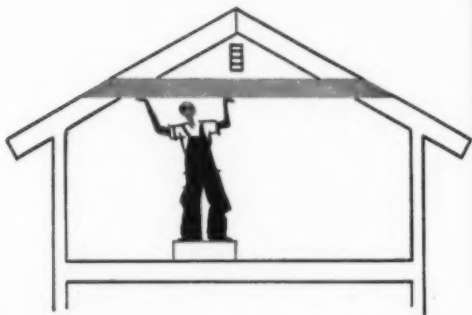
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DON'T TAKE YOUR ROOF AT SURFACE VALUE

The expression, "the roof over your head," has become almost synonymous with the idea of home. It's no wonder when you consider that year in and year out a roof bears the brunt of rain, ice and snow, withstands the full impact of the sun's rays. And yet, so few homeowners or prospective homeowners think much beyond the roof's surface. Admittedly, this surface is of great importance. It is a home's crowning architectural glory and must be right in scale, right for the design angle of the roof's structure, and in key with the overall appearance of the house. It must also be correct for the climatic conditions of the area in which the house is located. The unseen part of the roof, however, is of still greater importance. The roof, as a whole, is actually a part of the framing of a house, acting as reinforcement to the walls themselves. It is composed of many hidden parts, all of which contribute to the sturdiness and livability of a home. These pages point out most of the roof's hidden assets. If you are building a new home or thinking of altering an old one, make sure that the roof you plan will incorporate them. In addition, study the sketches of roof styles most often utilized; they will help you make sure that your house has the proper roof from the standpoint of design.



1. PLACING THE RAFTERS in position is the first operation in roof construction. The angle at which these rafters are placed is largely determined by the design of the house and the type of roof surfacing desired. If shingles are to be laid, this angle must be 4 inches rise to 1 foot of horizontal run, or steeper. Laying shingles on a lower slope will invite trouble since rain or melting snows cannot run off fast enough and may penetrate under the shingle and enter the house.



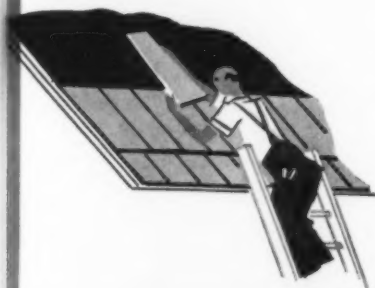
2. ADDITION OF COLLAR BEAMS gives greater strength to the roof's structure. In conjunction with the sloping members, they form a series of trusses to help the roof withstand the most rigorous stresses. They also serve to take the outward thrust of the rafters off of the walls. Collar beams offer nailing strips for ceiling construction and, in attic, allow space for insulating ceiling itself. Space above, when properly ventilated at gable ends, allows for the escape of moisture, and guarantees added comfort to rooms below in summer and winter.



3. SHEATHING IS LAID on the sloping rafters to give greater structural strength and rigidity to the roof. In the past, sheathing consisted of wood strips laid horizontally over the rafters. Today, there is an increasing use of large sheets of wallboard, plywood, and insulating panels, which offer greater strength than wood strips and have additional insulating values. Often, their composition includes a vapor seal as a precaution against moisture.



4. ASPHALT IMPREGNATED building felt is next firmly applied over the sheathing. Starting at the eaves, building felt should be laid parallel to the ridge, each succeeding strip overlapping the one below, in order to gain the greatest possible protection against moisture. Such strips are nailed in place



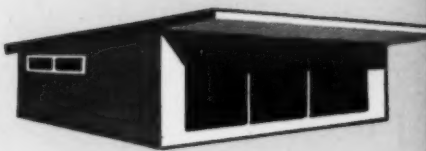
5. SHINGLES MAY BE USED as roof surfacing if roof has sufficient pitch. They are nailed directly over the roofing felt, and are available in a number of materials and designs. Asphalt shingles may be purchased in strips or singly and are fire-retardant. Asbestos cement-type are noted for rotproof and fire-proof qualities. Clay tiles and slate may be used on roofs of at least moderate pitch, but their weight requires strong framework. Wood shingles are often used but, unless treated, are less fire-retardant than other types



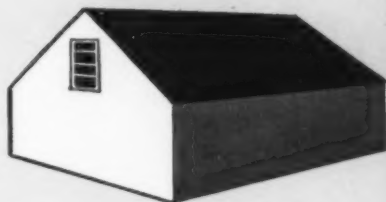
6. BUILT-UP AND ROLL-ROOFING should always be used as surfacing for low-slope roofs, since these form a continuous pattern over entire roof area, and so prevent entrance of moisture underneath surfacing. Built-up roofing consists of layers of asphalt impregnated felt, each swabbed with hot asphalt or other bituminous coating, then topped with gravel or mineral granules or chips. It should never be used on steep-pitched roof as heat of sun's rays might melt coating. Roll-roofing, too, has bituminous coating, may or may not be covered with granules



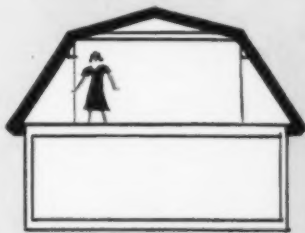
7. INSULATING is an important part of the roofing picture, should form a continuous blanket over walls and roof to give best service. Among types of insulation available are: batts of mineral, wood or vegetable fibers, rigid sheets of wood or synthetics, reflective materials, and fill. (Most of these insulating materials can be installed by amateurs.) Roof insulation is usually placed between the rafters, vapor seal coating facing into the house



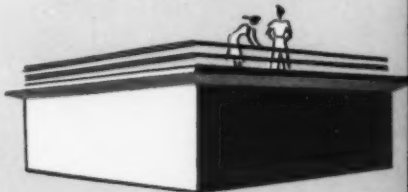
SHED ROOFS slope in one direction only, are often seen in homes of modern design, as the shape of roof allows greater feeling of openness to interior of house. They are economical to build and maintain. Low slope relieves roof of wind stresses, but possible snow loads necessitate heavy framing



TRADITIONAL GABLE ROOF has two slopes, steep pitch. Such a roof is ideal in areas where heavy snows are common; steep pitch, however, makes roof more subject to wind pressures. Gable ends give storage, living space, extra ventilation



GAMBREL ROOF is characteristic of Dutch colonial design, has certain advantages over other types: the eaves' lines can be dropped to give the house a lower, more settled appearance on plot, also to provide more headroom on upper floor. This type, because of pitch, requires a strong structure



FLAT ROOF is easily built but somewhat controversial, its value dependent largely on climatic conditions. In regions where the sun shines warmly much of the year, a flat roof makes possible an extra outdoor sun deck for relaxation. If it is to be so used, the roof surface must be built accordingly



BOTTLED, BURPED, BEDDED

There are two kinds of new parents: the insufferably proud ones who tell you in minute detail just how wonderfully good their baby is—"she sleeps the whole night through and during the day you wouldn't know she was around"—and those who, bleary-eyed from lack of sleep but equally as proud, tell you just how the baby keeps them up all night. This means, of course, that there are two kinds of new babies: Little Angels who wake up only long enough to eat and then drop off to dreamland again, and Little Angels who, for some unknown

reason, have colic or "irritable crying," and go on a crying jag every night for first three months.



10:00 P.M.—With thrashing feet and waving arms, Baby launches into her 60th nightly performance. She presses out a scream so intense it causes her to lose her breath. Guaranteed to bring parents on run, it heralds night watch



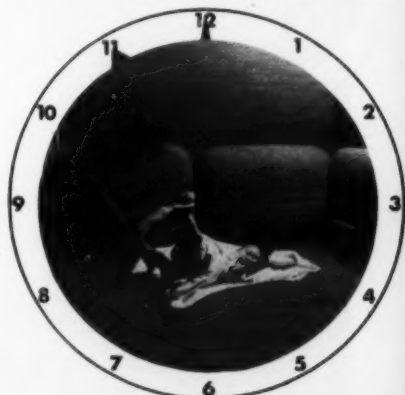
10:20—Before she has finished more than half an ounce, Baby loses interest in the bottle, pushes it away. Doctors don't know why babies have colic, guess it has something to do with periodic tension in immature nervous system

This is the story of one of the latter. Every night, from ten until two-thirty, almost as if she could tell time, Baby embarks on an endless round of crying, fretting, fussing, and general wide-awakeness. Doctors say it is fairly common, and actually, it seems to occur most often to babies who are developing well. After two harrowing months, Papa and Mama are resigned to their nightly pacing and patting, bottle feeding and burping. The general wear and tear seems to have little effect on Baby—she's gaining weight and thriving.

The big question is whether or not the parents will be able to survive the predicted one more month.



10:05—Mamma stoically heats another bottle. Night after night, she jumps to the conclusion that Baby must be hungry; night after night goes down to defeat, admitting Baby must have colic. Fondling pacifies her more than food



11:00—To a tired parent, it seems like a vicious circle... bottled, burped, changed... bottled, burped, changed. She has tried everything from changing formula to back-rubbing to hot-water bottles. Only thing that works is time

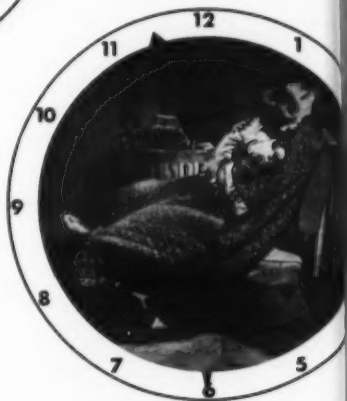
[Continued on the next page]



11:15—It almost seems to a desperate Mamma that the baby is actually forcing herself to stay awake. She has a reputation to maintain and is determined to do



11:30—Babies suffering from irritability feel less miserable when held. Mamma, dead-tired, thinks Baby should sleep from exhaustion



CLOSE TO 2:00 A.M.—and if all follows as per schedule, it is getting close to actual sleeping time. Baby works up one last mighty howl, as vigorous and vehement as her first



1:00—Papa conceded defeat weeks ago, decided it is just a matter of time every night until Baby's siege has run its course. With more than an hour to kill, he tries to enjoy eating

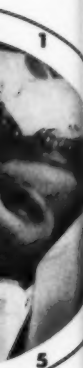


12:00—On the second lap, Mamma hopefully offers another go at the bottle. Its success is brief, but cuddling that accompanies it seems to soothe colicky baby



12:30—The halfway mark is reached, and Mamma, seeing a long shift ahead, wakens Father to take over. Baby may be gaining weight, but both parents are losing it

to a desperate
actually forcing
has a reputation
determined to do



Mamma hope
the bottle. In
ing that accom
colicky baby



2:15 ▲

Father can't quite hold out till the final moment and sneaks back into bed with the half-sleeping infant. Mamma woosily takes over and continues patting the baby's tummy until she finally falls off into a deep and sound sleep

2:30 ▼

Parents' only reward—if they were awake to see it—is Baby's blissful smile as she goes off to Nod. It's smiles like this, fleetingly and parsimoniously given, which turn tired parents into willing slaves, and make it all worth-while



**AIR COOLING IS
HAVING STRONG
BUYER APPEAL**
Ranch House Design
Tops All Others
A surprisingly strong nation-
wide in favor of year-round

Rich man's toy? No...

**Air conditioning is moving
into everybody's**

Survey Shows Air-Conditioning Popular

Air Conditioning For Small Homes Talked

Air-conditioning designers and
are making every
with the de-
conditioning equip-
residential con-
information given
monthly

and air conditioning. New
very luxury.
a few stores and
and air conditioning. New
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Cool Houses

**Pioneer Low-Priced
Air-Conditioned Homes
Get a Warm Response**

**Dallas Builders Have Orders
For All 125 Dwellings in
Project Opened in August**
Three-Bedroom Job: \$12,500

BY WENDELL C. FORD
Specialist of THE WALL STREET
JOURNAL

AIM AT COOLER HOMES

**NEW MARKET IS TARGET OF AIR-
CONDITIONING FIRM.**

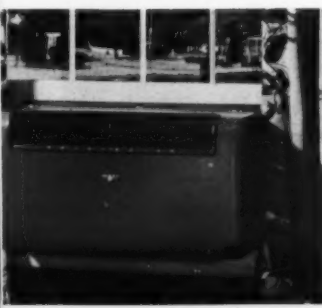
Survey indicates industry is on
verge of its biggest boom
in supplying units for
residences.

South American Magazine: Almost
New York, July 18.—Heat
stranded Americans who leave
air-conditioned stores, of-
fices and factories each day only
to find that the air is still hot
when they get home.

*A new era is dawning—
year-round comfort for every
home in the land*

With almost atom bomb suddenness, the era of the fully air-conditioned home within the reach of the average pocketbook has dawned. In a surprisingly quick evolution amounting almost to a revolution, year-round air-conditioning is on the verge of becoming just as routine for the average home as a heating system has been. This new system, which combines heating in winter with cooling and moisture control in summer, literally hurtled out of the luxury-home class last summer. Both in the North and South, fully air-conditioned homes were sold in some areas for under \$15,000 and even below \$12,000. Now as this year opens, there are many builders and air-conditioner manufacturers setting their sights on homes with year-round air-conditioning in the \$10,000-\$12,000 price range. With this development in store, the questions logically become: What kinds of air conditioning are there for the home; how much does the equipment cost and what are operation expenses; what will it do for my family; can it be installed in an old home?

THE TERM, "AIR-CONDITIONED," has often been given to homes with nothing but attic fans or blowers pumping cool air out of a basement in summer. A true year-round air-conditioning system cools in summer and heats in winter; it squeezes moisture out of the air in summer and adds moisture, when necessary, in winter; it circulates the cooled or heated air through the home; it ventilates with outside air; and it cleans the air with filters. In short, it completely controls the climate inside the home no matter what the conditions are outside. Most people think of summer air-conditioning as only cooling. Getting dry air in the summer is every bit as important—and sometimes even more so. Unless excess moisture is squeezed out of the air, discomfort remains high. For example, we are as comfortable at 82 degrees temperature and 40 per cent relative humidity as we are at 78 degrees—four degrees cooler—and 60 per cent relative



Frigidaire room air-conditioner

Popular in North and South

humidity. Home air-conditioners are usually designed to maintain a summer temperature of 80 degrees and 50 per cent relative humidity.

YEAR-ROUND AIR-CONDITIONING adds multiple benefits to everyday living in the home. Summer comfort through control of temperature and humidity is the most obvious. It extends to the home the same delightful conditions many enjoy in their offices and in public places. As in offices, there is greater efficiency, because efficiency drops rapidly when the temperature rises. Because windows are kept closed and the air is filtered, pollen and other irritants do not reach the family, thus affording relief in allergy cases. There are less air-borne germs. Houses are cleaner—which means lower cleaning bills, less dusting, less housework. Sleeping is easier, because street noises are shut out. No longer is it necessary to go to air-cooled restaurants or movies to escape the heat.

You can get year-round air-conditioning in a number of ways. You can have a heating system for winter and a separate cooling system for summer, or you can have them combined. You can cool either a part of the house or all of the house. In either case, the commonly used summer cooling units work on the same principle as your household refrigerator. There is a cooling coil, containing a refrigerant, that removes heat and moisture from the air. A blower pulls air through filters to clean it, passes it over the cooling coil to cool it, and circulates it into the home. The heat-laden refrigerant is pumped by a compressor into a condenser where it is cooled by air or by water and returned to the cooling coil to start the cycle all over again. There is a wide variety of units on the market with two main choices: cooling one or two rooms; cooling the whole home. If you want the former, the room cooler will be your choice. Most room units are cabinets mounted in a window and they are popular where only one room is to be cooled. If a home has radiant- or panel-type heating, room units are required for summer use because these heating systems usually cannot be combined with cooling. However, most people are not satisfied with partial cooling. Even if they start out with cooling a single room, they often decide later to cool the entire house. The big swing in residential air-conditioning, therefore, has been to the combination heating and cooling forced-air system because it adds whole-house cooling to heating for no more extra equipment cost than three large room coolers, and because it gives year-round air-conditioning in a single system.

BECAUSE OF THE FAST-MOVING TREND toward year-round air-conditioning, the selection of the heating system has assumed new importance for the householder who not only wants to install heating now, but wants to be able to convert to year-round comfort. The widest range of alternatives is offered by the blended air system which the householder can have installed either as a heating system to which cooling can be added at any time, or as a year-round air-conditioning system. Because space can be a problem, the working parts of the system can be all together in one place, or in separate locations. Other combined units require extra floor space, but with this one the householder has the option, if extra room is not available, of housing the compressor and condenser elsewhere—out in the yard or any place out of the way.

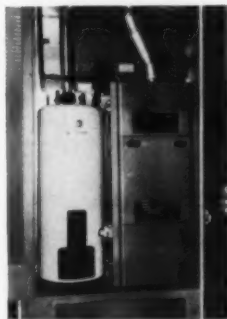
Room units are the cheapest way to get started with summer cooling. The equipment cost is in the neighborhood of \$300-\$400 a room. For year-round comfort the cost of the heating installation must be added to this. A [Continued on page 91]



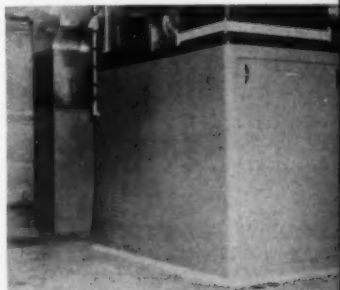
Servel all-year air-conditioning unit



Typhoon residential heating-cooling unit



Coleman year-round air-conditioning unit (right)



Chrysler Airtemp year-round air-conditioning equipment



GEORGE SMELL

CONCEALED within the arm-chairs' yielding cushions, *No-Sag* are springs make chairs surprisingly light for their solid frame construction, easy to move and clean. On the side chairs, leatherlike vinyl, *U.S. Elastic Naugahyde*, has a knitted fabric backing that gives extra elasticity under stress. Washing impairs neither luster nor whiteness. The Pittsburgh *Florhide* floor paint and *Historic* wall paint are inherently tough, too: a single coat is enough for a long-wearing finish. Another hidden asset is the *Conso* heading sewn into the top of the café curtains which automatically hangs them in the desired folds. *Ranch Oak* furniture, A. Brandt



BRANDT FURNITURE, ACCESSORIES AT B. ALTMAN & CO., NEW YORK

A ROOM THAT NEVER SAYS DON'T

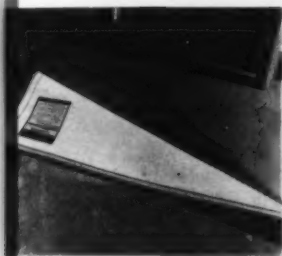
We all know that Junior shouldn't put his feet on the sofa or that his Papa shouldn't come in from the garden and plop down in the big easy chair with soil still clinging to his clothes. However, "Don't do that, dear!" and "Do be careful!" can become fairly tiresome as a steady refrain. Young, active families like a room they can live in and enjoy. B. Altman, in New York, has designed such a room and set it up on display to prove that wearability and comfort do not preclude attractive decoration. Beginning with a group of solid oak pieces that give a definite character to the whole scheme, they have planned a family room for living, dining and, when necessary, sleeping quarters for overnight guests. The furniture with its vitality and sturdiness obscured by scale, color, and texture is constructed to take the onslaughts of everyday living. Upholstery materials of plastic and tweed, washable rugs and draperies are easy to clean and keep clean.

See Your Guide to This Issue for further information

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UNDER THE RUGS (Mohawk's cotton *Intermezzo*), *Spongex Ripple* rubber cushions increase durability, prevent creeping. The low table (*above*) sees extra duty with four seat pads. The coffee table (*below*) disguises its dual identity by folding long legs inside hinged end panels. Raised and extended, it becomes dining table (*opposite page*). More space "to put things" is on sofa-bed's back shelf. Serta innerspring unit's tuftless surface comes from flat *Uni-Matic* spring top



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One are the winter days when a husband had to get up early, trot down to an icy cellar with eyes hardly even open, and struggle with the furnace. Today he can get up leisurely in the knowledge that fully-automatic controls have the situation well in hand. Modern engineering has provided him with a fantastic array of electronic and automatic devices to make life easier and more comfortable. There has been only one drawback. For some strange reason the average person figures that he was not meant to understand the devices which replace him in controlling the indoor climate. Blissfully ignorant, he is willing to tolerate uncomfortable conditions unnecessarily, not knowing how much comfort is within his grasp for so little money. An understanding of the functions of temperature-control systems can help homemakers to more pleasant living, both summer and winter.

The now familiar room thermostat is the key to temperature control. It is a heat-sensitive device. When the room thermostat controls the heating system, comfort depends largely on its ability to meter heat to the living area at nearly the same rate heat is being lost to the outdoors. All heating thermostats (electric, pneumatic or air-controlled, and electronic) contain temperature-sensitive elements which activate a relay. A majority of room thermostats are manually adjustable and hold the room temperature at whatever point they are set. Others are designed to lower the temperature setting during normal sleeping hours and automatically restore heat to the usual daytime room temperature the next morning. Some such day-night thermostats have a mechanical spring-wound timer. This mechanism is wound each night and the time is set for automatic morning heat pickup. In others, the mechanical winding is replaced by an electric clock, and change-over from day to night setting is fully automatic. The simplest thermostat operates on the on-off principle, all down the line. Thermostat goes on or off,

relay goes on or off, burner goes on or off; all in reaction to the temperature sensed by the room thermostat in relation to a preset point.

Limit and combustion controls are also a part of the heating control system. Two functions of a fan and limit control are to protect automatically fired furnaces and boilers from excessive temperatures and to circulate heat. This is accomplished by shutting down the system whenever a dangerous condition exists. For example, the limit control for a warm-air system is designed to sense the air temperature of the furnace. Forced warm-air heating plants incorporate a temperature sensing element in the bonnet that serves to activate the limit switch and fan control. A hot water-heating plant uses a limit control designed to sense the water temperature in the boiler.

Combustion control plays a vitally important part, too, particularly when used with gas- or oil-burning equipment. Gas or oil vapors which enter the combustion chamber from the nozzle of a burner are highly explosive elements which demand the utmost in dependable combustion control. On an intermittent oil-fired system, a temperature-sensing element extends into the stack and responds to the presence or absence of combustion in the heating plant. The combustion control relay is mounted on the stack. Upon a call for heat from the thermostat, the ignition and burner motor are turned on. After a certain number of seconds, the element senses heat or the stack relay stops the oil burner. This is to prevent the possibility of a concentration of highly explosive fuel-oil vapor from accumulating in the combustion chamber of the heating plant. In the event the sensing element detects the presence of heat, the ignition spark is turned off and the burner continues to operate until the room thermostat stops calling for heat. It is in this category that one of the latest advances has been made, the application of the "electric eye" as the sensing element for this

essential safety device. A photoelectric cell unit is so arranged to sight the existence of flame when the ignition sparks. Within seconds of ignition, if the flame is not established, the burner is shut down. Then, like an electrical circuit breaker, manual resetting of the switch is necessary after difficulty in the burner has been corrected.

UNDER CONTROL

Automatic devices let you set indoor weather



THERMOSTAT in wrong place can cause discomfort needlessly



NEAR OPEN DOOR, thermostat accuracy is cut by drafts



ON OUTSIDE WALL of a home, thermostat misjudges weather



ON CHIMNEY, a thermostat fails to note true room heat



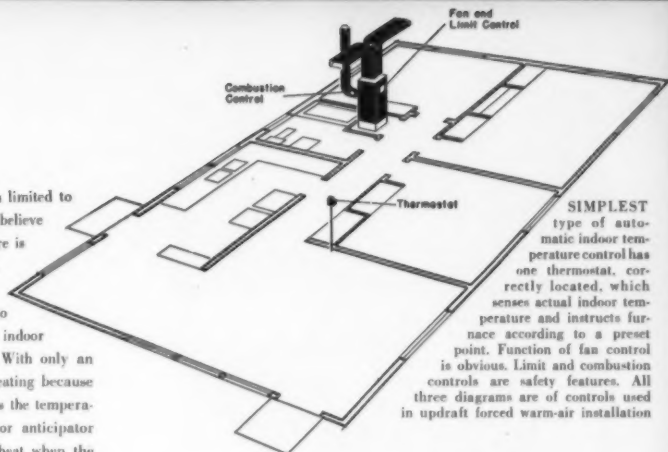
RIGHT PLACE for thermostat is spot near

So far, the discussion of heat regulation has been limited to indoor temperature control. However, most experts believe the best place to start controlling indoor temperature is out of doors. Weather seldom remains constant from one hour to the next. As the weather varies, so varies the rate at which heat in a building is lost to the outside. An outdoor anticipator (similar to the indoor thermostat) senses these weather changes at once. With only an indoor thermostat control, there is a time lag in heating because the furnace cannot always supply heat as quickly as the temperature drops. To overcome this difficulty the outdoor anticipator warns the furnace in time to supply the required heat when the room thermostat calls for it.

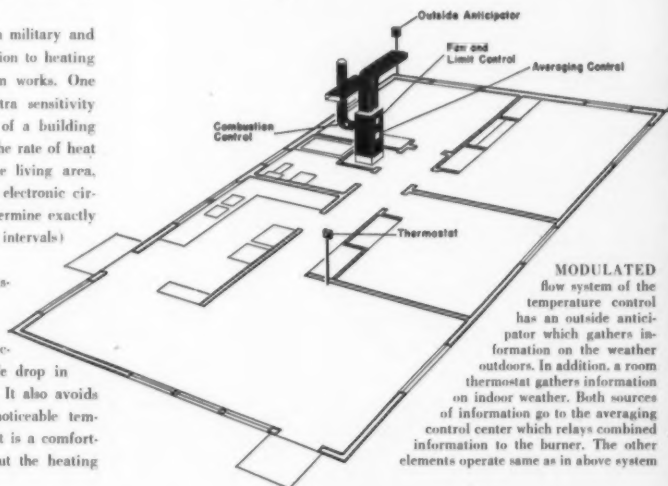
Electronics, with its fantastic accomplishments in military and industrial installations, has made a great contribution to heating control. Here is how an electronic control system works. One electronic thermostat is located outdoors. Its extra sensitivity enables it to actually forecast heat requirements of a building before a weather change has affected a change in the rate of heat loss. Another electronic thermostat, located in the living area, checks indoor temperature. By means of a special electronic circuit, these thermostats operate in unison. They determine exactly how many minutes out of each hour (and at what intervals) the burner should operate.

The electronic signal from all thermostats is transmitted to a relay amplifier (which is similar to a small radio). This device enlarges and averages the signals transmitted to the heating plant. Electronic-modulated flow never requires a perceptible drop in room temperature before there is a call for heat. It also avoids extended burner operations that may cause a noticeable temperature rise to the point of discomfort. The result is a comforting, even warmth efficiently distributed throughout the heating areas during the heating season.

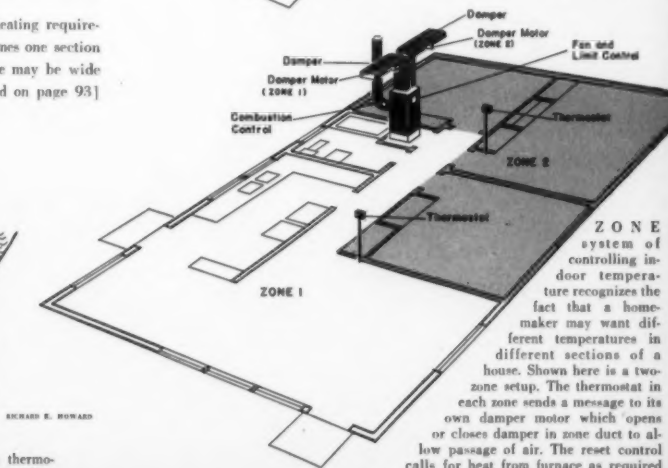
One thermostat cannot estimate effectively the heating requirements for today's well-designed home. In some homes one section may face the sun while another is sheltered. There may be wide differences in glass area, exposure, and [Continued on page 93]



SIMPLEST
type of automatic indoor temperature control has one thermostat, correctly located, which senses actual indoor temperature and instructs furnace according to a preset point. Function of fan control is obvious. Limit and combustion controls are safety features. All three diagrams are of controls used in updraft forced warm-air installation



MODULATED
flow system of the temperature control has an outside anticipator which gathers information on the weather outdoors. In addition, a room thermostat gathers information on indoor weather. Both sources of information go to the averaging control center which relays combined information to the burner. The other elements operate same as in above system



ZONE
system of controlling indoor temperature recognizes the fact that a homeowner may want different temperatures in different sections of a house. Shown here is a two-zone setup. The thermostat in each zone sends a message to its own damper motor which opens or closes damper in zone duct to allow passage of air. The reset control calls for heat from furnace as required



RIGHT PLACE for thermostat is spot neither too hot nor cold

INSIDE WALL helps thermostat get true temperature reading

EDWARD E. BOWARD

CHARLES SPIER



TRANSFORMED, INTO a carefully detailed house, the nondescript garage (below) has completely lost its former identity. Added upper floor was projected a foot beyond lower for greater floor space

REMODELED GARAGE MAKES A HOME



Far be it from us to say that every dilapidated garage you see can be made into a comfortable home. It takes detailed study and a practiced eye to know when it is economical and practical to tackle such a remodeling project. Ruth and George Pritchard had already remodeled and sold three homes at a profit when they came upon an unhappy two-car garage that marred an otherwise tranquil neighborhood in suburban Baltimore. Because of its setting, among trees, next to a stream, and because it presented the greatest challenge to date, it has become their favorite project. It was a family affair, start to finish. As an electrical engineer George understands construction, and his teammate Ruth has developed talents as an indefatigable stonemason. With the help of their three children, they first dug a trench around the entire structure and filled it with concrete. On this foundation they built up a veneer of fieldstone over the existing sturdy concrete block walls, altering window and door openings as they went. These stones and cobblestones for the paths were gathered by the Pritchard boys and young sister Diane. Next, a new concrete floor was poured over the old one, and the roof taken off. Over new ceiling joists they laid oak boards which became ceiling for the first story and floor for the second. As soon as the second-floor walls were plastered and the new roof put on, the Pritchards moved in and, minus most creature comforts, kept on building until the house was finished.



PINE PANELING painted antique white sheathes the inner walls of the erstwhile garage, agreeably contrasted at either side of the fireplace by more of the stones used for outside. The deep reveals in the thick walls provide a window ledge for plants (opposite) and shelf space for china (above). Door opens to a side terrace. The room's colors repeat beautiful tones of the stone and fireplace brick: reds of chair, settee, lamp; blues and greens of books and bottles; deep, rich hues of the wood pieces, gray-green of carpet. Plain white cotton curtains soften the light at every door and window. Inside and out, Pritchards' home is an example of family teamwork that was the admiration of the whole community. Everyday, neighbors and strangers, too, stopped to watch. Ruth Pritchard says that her unladylike practice of stonemasonry attracted some of the most fascinating people she has met. Many an artist and writer struck up an acquaintance over rocks and mortar

[Continued on the next page]



REMODELED GARAGE
MAKES A HOME *continued*



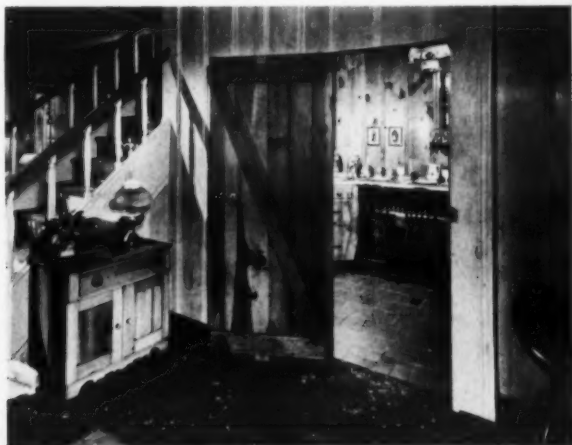
UPSTAIRS LANDING gives a glimpse of boys' rooms, small but complete. Much is their own work



LIKE SHIP'S LOCKERS, cabinets built under each boy's bed save considerable space, as do legless desks hung on wall. Desk light is augmented by strip lighting behind cove. For further nautical effect, Larry and George, Jr. chose a seaside scenic paper for one end wall



COLLECTION OF AMERICANA in this solid little house has been turned to practical present-day usage. Baker's dough tray is table in living-dining room; apothecary chest with forty-five drawers is a perfect family catchall. Old butter churn is a hatrack

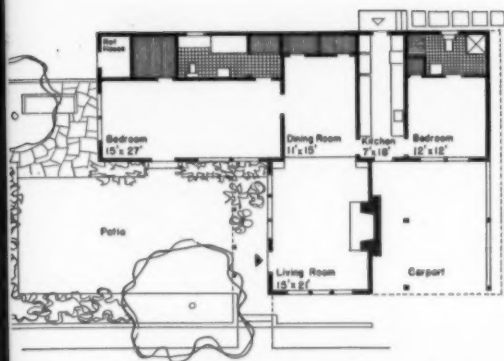


BESIDES SPATTER-PAINTING and shellacking the concrete floor, Ruth and George laid bricks for kitchen floor, hearth, and two outside terraces. Ruth crocheted a sampler runner for the stairs. Knotty pine commode stores linens and silver. Tall chairs at kitchen breakfast bar were accountants' stools many years ago, are now put to home use

ERNEST SILVER



TESTER BED, a symbol of colonial tradition, takes its full share of space in the master bedroom and manages to look at home in front of a window. Using fabric as the decorative keynote, Ruth covered bed head and footboard, wing chair and lamp shade with same blue and white chintz, then added expanses of white in canopy, bedspread, and rugs. Walls are painted pale blue



STREET ENTRANCE (bottom, center) is through gate, with concrete block wall surrounding patio and extending to new carport (right). Original garage is now guest room

REVISED GARAGE-HOUSE IS A DALLAS OASIS

In Highland Park, a residential section noted for its large homes, the custom is to begin sometimes with a small structure of a few rooms and garage at one end of the property, then add to it later, as desired. One such "garage-house" close to the street in this fine neighborhood presented an unprepossessing appearance to passing Texans until it caught the artistic and penetrating eye of Rose Driver. As a painter, she pictured it with new life, architecturally enhanced and furnished in a way that would express her own enthusiasms. Although Rose Driver had never remodeled a house, she studied the job so carefully that she was able to do a large part of the work herself, side by side with masons and carpenters. She con-

sulted with an architect and building inspectors, donned blue jeans, and went to work. What she did was to seclude the long corner property behind a concrete block wall, presenting to the passer-by an inviting entrance with a glimpse of windows and rooftops (in contrast to the open aspect of neighboring houses). An extra bedroom and bath were made out of what was originally the garage, and a wooden carport was built in front of it. The size of the master bedroom was doubled by combining two rooms with the elimination of the wall between them. Rose Driver built a patio and a fireplace; she painted, papered, and planted. The result is a home uniquely her own, remodeled for about \$4,500, and an asset to the neighborhood.



LUXURIANT PLANTING lines the patio, a delightful place in which to entertain, with its smooth concrete floor, pink shutters and pieces of ice-cream parlor furniture. Door to master bedroom is at left, main door to living room is at right, under vines



INSIDE PATIO GATE, pink shutters and pink screen door point up the warm gray-brown of the house and the gray fence blocks. Brass lamps, copper vessels add personal touches. Innovations were wall, shutters, pavement, edged flower beds around patio

S



OLD PINK BRICK was used for new fireplace in wall next to car shelter; windows were removed. Directly opposite, a new, wide window opens view to patio. Under the braided rug is a concrete slab scored in squares, painted red. Dark-stained jalousies shield the room from street and hot western sun, increasing the cozy atmosphere created by the colonial furniture and bounty of antiques Mrs. Driver has collected during her extensive travels

PINE-PANELED guest room, adjacent to carport, was once garage, is now complete with built-in shelves, hidden closet (behind chair), private bath. Red linoleum was installed; door became a window. (Fabric is inexpensive heavy cotton)

[Continued on the next page]



RONCE CRISTEN

REVISED GARAGE-HOUSE *continued*

KORIC 1000



MASTER BEDROOM, previously two rooms, is 27 feet long—a spacious, comfortable apartment for sleeping and sitting. (One end not pictured, leading to dining room, is furnished with an extra sofa bed, desk and lounge chairs, has a large window overlooking patio. Door to patio is off left.) Colors in this room, as in others, are ex-

ceptionally pleasing: gray-green ceiling, woodwork and carpet contrast with sheer topaz curtains, darker golden-brown bed ruffles, and old walnut furniture. Touches of purple in the wallpaper also appear in hooked rugs, whose varied designs and colors create interesting counterpoint to the unconventional decoration all through the house



MINGLED PATTERNS in the dining room cheerfully encourage appetite and conversation. Related in character, the ingredients go happily together. Furniture, brass, pewter, ceramics are as provincial as the rugs and

red-hued wallpaper, as old-fashioned yet contemporary as the pine-paneled dado and shutters used for closet doors. The wood floor, painted red, unifies the interesting composition, cool green ceiling gives it height, contrast



IN WINTER, the patio window provides the living room with a new outlook. Guests sitting by the fire, opposite, can enjoy the unusual prospect of tropical plants kept moist and warm between plate glass and an outer collapsible plastic screen and trellis



KITCHEN'S RED LINOLEUM is same as in guest room (to left beyond red shutters). Dining room is to right. Lightly stained wood cabinets and beige plastic counter tops are in smooth contrast to figured-paper ceiling which reflects a purplish cast over them

Except for the fixtures and a few pipes showing under bathroom and kitchen sink, the plumbing system is one of a home's most carefully hidden assets. Since its inner workings are tucked away, plumbing itself is perhaps the least understood home-service system. While the homeowner is protected by legal codes which assure him of plumbing safety, and by the use of licensed contractors and their workmen who assure know-how in installation, he should know the rudiments of a plumbing system and something about its components which function out of sight. There are four main elements to a plumbing system: cold and hot water-supply pipes, waste lines, venting, and the fixtures themselves.

The main water-supply pipe leads either from a city main or a private well system. In either case water comes into the house under

requirements of the building code of a given area and the technical installation prerequisites. The pipe materials to be used depend largely on the corrosive action of the water in the vicinity. The action of water varies widely in different areas, depending on its "hardness" or mineral content. Sometimes householders complain of low pressure in city mains when the trouble is actually caused by the fact that their piping has corroded and reduced the interior diameter of the pipes, thus producing a sluggish flow at the faucets. Since chemical action is hastened by heat, corrosion is likely to be greater in hot water lines than in cold. Nonferrous metal, such as copper and brass, is so little affected by water of varied analysis that it is widely used for trouble-free hot water-supply piping. However, certain combinations of the galvanized

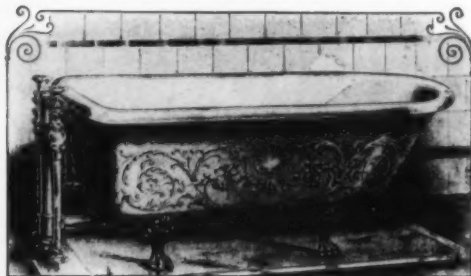
iron and nonferrous pipes cannot be used together because they create in themselves an electrolytic action which corrodes or disintegrates the pipes. Such combinations are known to master plumbers and thus avoided. In favorable cases where water content has no corrosive action or where a water softener has been used, supply pipes may be of ferrous metal, such as galvanized iron, to reduce cost. The piping arrangement varies with the plan of each home. In general, water is planned to

travel as directly as is feasible, branching off to each outlet. In a circulating system of hot water supply, the pipes, of course, are always warm. With such an arrangement, there are some tricks which can be done at slightly extra cost to get double duty out of the pipes. On the return route to the water heater, pipes can be passed through a closet or wall cabinet and arranged in a coil to keep the closet dry. This is an especially good arrangement for a home in a humid climate.

Just as provisions for future expansion of a home should be incorporated in the plans at the time they are first drawn and before the foundation is dry, plumbing plans for the original structure should be carefully detailed for future expansion. If a bedroom and bath will be added at some later date, the exact location of the fixtures should be predetermined so that pipes can be brought to that spot and capped. Similarly, a soil line which is buried in a concrete slab should be planned for easy addition of piping when the slab is extended. Such advance planning allows for considerable savings.

The piping that carries away the wastes from the fixtures and the complementary vent piping that is necessary are important hidden assets of a plumbing system. The water supply works under pressure and flows upward; the waste piping works by gravity and flows downward. Gravity carries waste from each fixture to the main soil line which runs under the house, through the house trap to the house sewer and, in turn, to city sewer or to a septic tank. Waste piping material most widely used is cast iron. Other metals and also nonmetallic materials are sometimes permitted by code for house to sewer connection.

PLUMBING — AN UNSEEN LIFE LINE



BEUTMANN ARCHIVE

ANTIQUARIAN'S DELIGHT is hardly recommended for today's homes

pressure at the rate of about 200 gallons a day in the average home, and is controlled by a main shutoff valve near the point of entry. City water generally travels through a meter as it enters the house. Water that will be used cold goes to cold water outlets at kitchen sink, lavatory, toilet, outside hose faucets, shower, tub, etc. A branch from the main supply line runs cold water to a hot water heater (or to the furnace, in some cases, when the furnace is designed to supply hot water for domestic use), and from this heater a hot water-supply line then runs parallel to the cold water line to fixtures that require hot water.

There are three distinct supply piping problems: the size of the pipes; material to be used; and the piping arrangement. As an engineering matter, the sizes are pretty well established by the

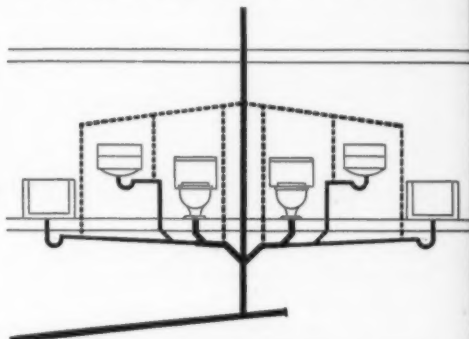
All waste piping must be gas tight where it runs either vertically within the walls of a building or horizontally from the building to sewer or septic tank. It must be strong to resist possible movement of the earth in which it is buried, and to withstand the stresses of loads should it be under a driveway. It must be root-proof where the lengths are joined, if there is landscaping or planting near the pipe line. It must be corrosion-resistant to soil acid and liquid-borne waste material. Since cast-iron soil pipe fulfills all these requirements, it is to be recommended in most cases, even when it is not legally required.

As the soil line takes waste down and out of the house, the vent piping takes gasses up and out. At the waste connection of each fixture is a trap in which a constantly maintained level of water seals out the gas from entering the room. A vent takes the gas beyond each trap to the main vent or the soil vent. Under varying codes and varying conditions, including such things as location of fixtures and types of homes (whether one or two stories), different venting arrangements are required. (See accompanying sketches for several examples.)

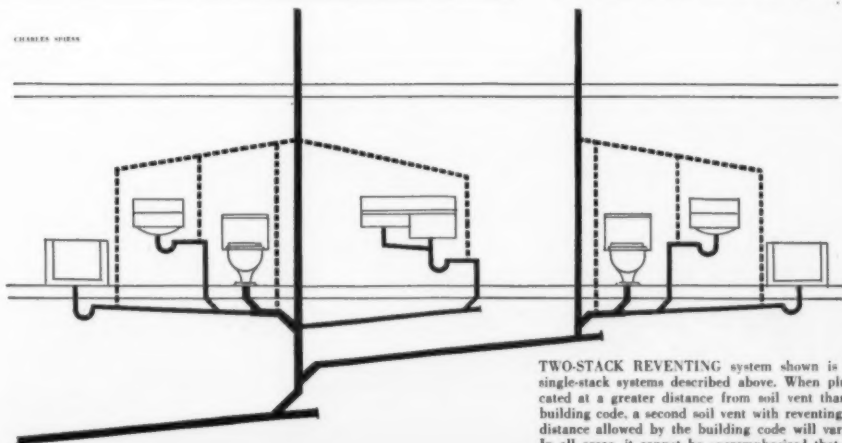
The plumbing system of a home shows its face in neat, glistening fixtures and fittings. Fittings have a number of hidden assets, ranging from the washer in the water faucet to the mixer valve in a shower, all making for greater comfort and convenience if kept in proper working order. There are several basic types of fixtures, representing a range in quality and cost. Vitreous china fixtures correspond to glazed pottery dishes; porcelain enameled cast iron is another widely used material; porcelain enameled steel is a recent development, lighter in weight than the other types. In all cases, fixtures are made in a wide variety of colors, designs, and sizes. Over the last seventy years, the designs of fixtures have changed their appearance as well as their adaptability to modern planning demands.



SINGLE-STACK METHOD of venting can be a money-saving hidden asset in houses of one level, under certain conditions. Under some building codes, plumbing fixtures located within a five-foot radius (in different areas, distance may vary) may utilize combination soil and vent stack arrangement shown. Gases are vented from both the fixtures and the soil pipe by the single pipe which extends to the roof. Quite often, the code's limit is maintained by placing plumbing of kitchen and bath back-to-back. Of primary concern in this connection is the ratio of the savings in plumbing costs to the workability of a plan which locates bath and kitchen fixtures within specified limits.



REVENTING WITH SINGLE-STACK method is necessary when plumbing fixtures are located at distance greater than radius limit allowed by building code. In the reventing system, each fixture has a separate vent pipe leading to main vent pipe (indicated by dotted line) which revents to soil vent (heavy black vertical line). If reventing is not permitted by code, it would be necessary to run main vent pipe through roof alongside the soil vent. This is generally a costlier setup.



TWO-STACK REVENTING system shown is an elaboration of the single-stack systems described above. When plumbing fixtures are located at a greater distance from soil vent than that specified by the building code, a second soil vent with reventing must be installed. The distance allowed by the building code will vary depending on locale. In all areas, it cannot be overemphasized that the building code will have a far-reaching effect on the final costs of a home's plumbing system.

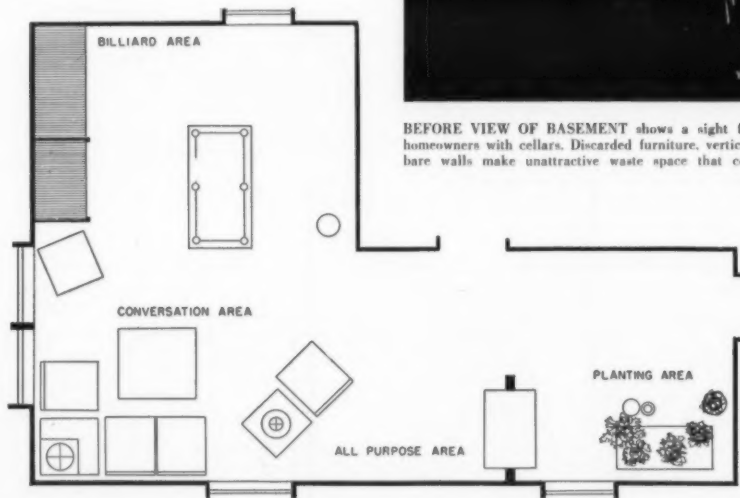
A REMODELED BASEMENT IS AN ASSET UNCOVERED

Many an old house has an asset hidden beneath the first floor—its cellar. Usually it is hidden for a good reason. A great, empty cavern marred by unsightly pipes and a catchall for odds and ends, it is not regarded as fit to be seen. Actually, the basement is highly usable space going to waste, space which, when remodeled, can add greatly to the intrinsic worth of a home. When the Clayton house changed hands the new owners realized this and took action, made the most of a hidden asset by using remodeling materials which, in many cases, incorporated hidden assets in themselves. Wallboard, both on walls and ceiling, shut away the ugliness of pipes and bare brick. Inexpensive wall-to-wall fiber carpeting hid the floor. The rest was a story of intelligent use of furniture and accessories, color, and textures, planned with an eye to family interests, and designed to get the greatest possible use out of the space available. Groupings of furniture and activity accessories made four distinct recreation areas. The boost to the dollar-and-cents value of the house is well worth the \$86 spent for materials.

It adds to value as well as enjoyment of a home.



BEFORE VIEW OF BASEMENT shows a sight familiar to most homeowners with cellars. Discarded furniture, vertical supports, and bare walls make unattractive waste space that could be utilized



LARGE L-SHAPED BASEMENT was planned to give space for distinct activities, while keeping essentially to one big room. Such

an arrangement would provide all the members of an average-sized family with spill-over living space for their activities

[Continued on the next page]

ho



RECREATION AREA of transformed basement (*above*) centers around the billiard table (Brunswick's *Home Pocket*) and television set. Closets in rear are equipped with *Folddoors* which have two assets not immediately recognizable; they make a wall or not, as required, and, when functioning as doors, take up no floor space on opening. Wall-to-wall *Gay-Fai* rug adds color and pattern to the versatile room

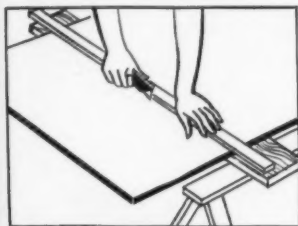
CONVERSATION CORNER (*below*) has end walls of gypsum board, finished to look like grain of walnut; ceiling and other walls are plain gypsum board, painted burnt yellow. An important asset concealed in the board is its resistance to fire. Other invisible assets: 1 x 2 furring strips to which wallboards are attached; air space between wall and board prevents dampness. Sectional furniture by Lloyd Loomcraft

WELL, WARD





How gypsum board was installed



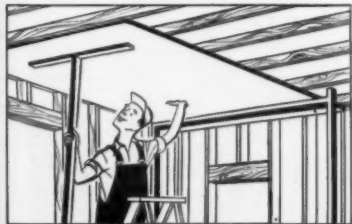
CUTTING gypsum wallboard to measurement can be done in either of two ways: by sawing or by method shown, scoring and snapping board along line. Latter method is timesaver



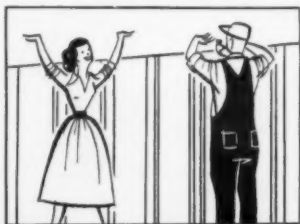
NAIL WALLBOARD directly to studs, or if it is not a stud wall, attach 1 x 2 furring strips to wall, spacing them 16" apart. Nail wallboard to strips. Boards may be placed vertically or horizontally



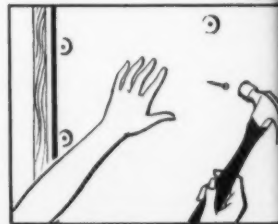
JOINTS where sheets of square-edge wallboard meet may be left as is or filled with spackle. Recessed-edge boards require special tape. Follow the manufacturer's instructions



CEILING PANELS can be installed by one person, if necessary, by setting up an H-shaped brace of 2 x 4s at end of room. Push wallboard into place with T



WALLBOARD may be applied to ceiling more easily by two persons working from a scaffold. Nail center of board first, working to-



RECOMMENDED nail sizes for $\frac{1}{2}$ " gypsum wallboard are 5d. 1 $\frac{1}{2}$ " long; for $\frac{5}{8}$ " 6d. 1 $\frac{1}{2}$ " long. Nail no nearer to edge than 1" (1 $\frac{1}{2}$ " for recessed nails where needed)



PLANT ROOM was originally an alcove formed by the outside entrance to the basement. Convenient to the garden, it was the logical place to arrange bouquets, pot greens, and store equipment.

It was partially closed off from the rest of the basement by a stud partition faced with wood-grained gypsum board. Pass-through serves as a telephone desk or, at parties, as a bar and snack counter

See *Your Guide to This Issue* for further information



GET A NEW PLOT OFF TO A GOOD START

By ESTHER C. GRAYSON

Every new home is a challenge to the skill, ingenuity, and industry of its owners. While this goes without saying for the inside of the house, too often the outside, the ground area, is left to develop haphazardly, along hackneyed lines, and with inadequate preparation. This doesn't seem sensible when only friends are likely to see the inside of the home while the whole neighborhood will see the outside, and judge it by its appearance. Moreover, a family's pleasure and enjoyment will depend on the attractiveness and livability of the outdoor quarters almost as much as upon those of the interior. The big question then, whether you have purchased a ready-built house or a lot on which to build, is how to get started right and avoid the all-too-common mistakes that result in unsatisfactory plantings, the subsequent expense in attempting to rectify them—not to mention all the wasted time and effort. If you are purchasing a new, ready-built home, as most young couples do today, you will more than likely have to start with a handicap. Often a bulldozer "levels off" everything living—big trees and shrubs which, if saved, could within a few years have been developed into valuable specimens. Precious topsoil, a true hidden asset of any plot, is often covered with raw subsoil, or—especially if worked when wet—is so compacted by heavy machinery that it may take years to restore

it to proper texture. Natural features, such as interesting slopes, outcroppings of rock, are sacrificed to mass production. But we live in a bulldozer age, and the best that can be done is to realize the situation and do what we can to correct it. Those who buy land and build for themselves are in a somewhat better position. They can have the topsoil stripped and pushed to one side for future use. They may be able to save some trees and shrubs; and they can make sure that the back fill against the house foundations is all dirt, even if it is subsoil, instead of the usual mixture of debris (waste pieces of wood, wire, plaster, paint cans, etc.) left by masons, carpenters, plumbers, and electricians. When grading is done, they can see to it that pleasant natural slopes are not eliminated, and any existing natural features—such as an outcropping of rock that could later be incorporated into the landscape plan—are not buried or broken up.

Testing the soil: Assuming that you will have to start where the builder left off, how can you go about the development of the outdoor half of your home with the greatest assurance of avoiding costly mistakes? First of all, bring yourself to realize that the *basis* for your outdoor home building is the soil itself. Step number one is to determine what type and



quality of soil you have. You may be so fortunate as to have good soil to start with. Even if it is poor soil, you can do much to improve it without great cost if you get started correctly. You can obtain a great deal of help in your own community without any expense at all. In almost every county in the United States, there is a county agricultural agent. He is familiar with the types of soil in his area. It's part of his job to be of assistance to homeowners as well as to farmers, fruit growers, and others commercially engaged in agriculture. If you look him up (you'll find his number in the telephone book, or your postmaster can tell you where to reach him), he will be glad to test your soil for you. First thing, he will determine whether your soil is acid or alkaline. Most ornamental plants and nearly all vegetables prefer a slightly acid soil. There's been a lot of nonsense written about acid-loving and lime- (alkaline) loving plants. Most growing things have quite a wide tolerance to acidity, but it is important to know whether your soil happens to be at either extreme. If you wish, you can, with an inexpensive kit (available at any garden store or seed house), make this acid test for yourself. Next thing, the county agent will determine if your soil is lacking in humus; and the chances are 99 out of 100 that it is. It's likely to be only a question of *how* poor it is in this respect. Humus is the organic matter—decomposing remains of vegetable or animal matter—which the soil contains. Sandy soils are especially likely to be deficient in humus. And he can also find out—or probably give you off-hand, from previous experience with soils in your locality, a pretty good estimate—how your soil measures up in regard to the three principal plant foods: nitrogen, phosphorus, and potash. Why is all this important? For the simple reason that the success or failure of every plant you grow—trees, shrubs, flowers, vegetables, fruits—depends primarily upon the soil. And until you know your soil and what it needs to make it productive, you are simply working in the dark, and wasting time and money.

Basic soil improvement: The planting of your grounds can be done little by little; in fact, unless you have a very generous budget, it will probably have to be done that way. This is true whether you have a 60-by-100-foot lot or a quarter acre or more. The basic improvement of the soil, however, can be done much more economically if you undertake it on a full-scale basis. Take, for instance, the first step, that of getting it into good mechanical condition. In most sections there are now concerns or individuals who do custom rototilling. This method of preparing the soil involves the use of a machine which, by means of rotating tines set a few inches apart, literally tears it to pieces, mixing together topsoil and whatever

may be growing on it, and a few inches of the subsoil, leaving it loose and friable and in easy condition for you to work. This is particularly important where the soil has been packed down hard by bull-

dozers, tractors, trucks, wheelbarrows, and the general trampling which accompanies all housebuilding operations. Plants, even the humble grasses which you tread under foot, need the ready access of water, air, and nutrients to their roots, and none of these can freely penetrate hard, packed soil. Unfortunately, there is no substitute for this primary turning and loosening of the soil. Despite anything you may have read to the contrary, there is no miracle chemical that you can sprinkle on the surface and thereby convert hard-packed soil—or even good rich soil—into a loose, crumbly, productive loam. Hundreds of thousands of gullible homeowners have found this out the hard way during this past year. A man with a power machine can go over a good-sized plot in a few hours. The ground, of course, should be cleared so that his time will be used to the best advantage. For a few dollars, you have done, and done better, work which would have required several days of backbreaking labor if you attempted to do it by hand.

Built-in productivity: With this first important step accomplished, you can go on to do the rest yourself, little by little, if necessary. The next

step is to carry out the recommendations of the county agent. If your soil is like the average, it will need both humus and fertilizer to build up its capacity to

grow vigorous, healthy plants. Unless it happens to be located in a section that is naturally alkaline, it will probably be benefited by an application of lime. Agricultural lime is a finely pulverized form of raw limestone, a fine, white powder. It is not a fertilizer, but it does improve the structure of both clay and sandy soil, and it helps to release, for the use of plants, various chemical plant foods in the soil. The usual application is ten to fifteen pounds a 100 square feet; up to double this quantity may be used on soils that are very acid. After spreading, it should be forked or cultivated into the soil as deeply as possible. Humus adds some plant food, but is of value chiefly in improving the structure of the soil, absorbing and holding moisture, and providing a favorable home for the development of beneficial bacteria which release plant foods already in the soil. The best form of humus is partly decomposed (not fresh) barnyard manure. This is difficult to procure in many sections, but fortunately there are good substitutes. The two most generally available are peat moss and commercial humus. Compost, made by decomposing vegetable matter in a pile—grass clippings, weeds, leaves, prunings, etc.—is another excellent substitute for manure. The commercial types of humus are spread over the soil, two inches or so deep, and forked in. For sowing grass seed and [Continued on page 99]



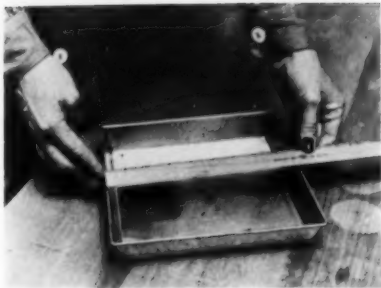


KITCHEN ACCIDENTS are caused by lightweight pans (like one left) that dent and buckle, tip on the burner, waste fuel at sides. Look for heavier kettles and saucepans (right) with seamless sides, flat bottoms, and secure handles that are well balanced and easy to hold

WHAT TO LOOK FOR IN YOUR KITCHEN

*Small allies that work
best and last longest*

Little things, like a removable handle on a skillet, may seem unimportant to a novice in the kitchen, but to those who speak knowingly of time and temperatures, such inconspicuous, helpful details have great significance. The skillet with a detachable, heat-resistant handle may see service in the oven without the handle (for upside-down cake, oven-fried chicken, or roast meat) and then quickly do a turn on top of the stove for gravy-making, with the handle. It seems obvious that a sturdy, well-shaped pan with a good pouring lip is a better investment than a skimpy one that teeters . . . yet many a well-meant shower gift has brightly beguiled the purchaser, only to sadly disappoint its user. Last fall, in the five *LFYH Kitchens* at the National Home Furnishings Show, our ideas were confirmed about the importance of these little things to a person running a kitchen. Visiting young homemakers asked hundreds of questions. Their interest went beyond the glamorous meet-the-eye features. We opened and closed cupboard doors and drawers for them. They asked to lift pans and casseroles. They examined our knives, brushes, sponges, and mops. Handles, hinges, and ball bearings received as much attention as refrigerator capacities and dishwasher performances. They wanted to know about everything that could save them time, money, and effort. Because the distinguishing virtues of equipment often escape the unwary eye, we have prepared four pages of illustrations to point out some of the pros and cons worthy of your consideration. Whatever the size of your budget, we think you'll agree on the advantages that outweigh a "hargain" in shiny red paint.



KNOWING THE SIZE of a baking pan is important because recipes and ready-mixes specify ingredients to fit exactly. The wrong-sized pan can mean failure of a cake or pie. To save bother of ruler-hunting and pan-measuring, buy pans with the size stamped on the bottom (right)



A YEAR AGO, the frying pan, at left, was a shiny shower gift. Its thin plating wore away under scouring and stirring. Food sticks to it. The pan at right has served one family for 20 years, still has a smooth surface, handle intact. New ones with removable handles are good buys



SEAMS AND ROLLED EDGES catch food, are discouragingly hard to clean (witness the cake tins at left, neglected by a tired homemaker). New molded ones (right) have smooth edges, rounded corners that keep the tins looking nice, are much easier on towels and housewife

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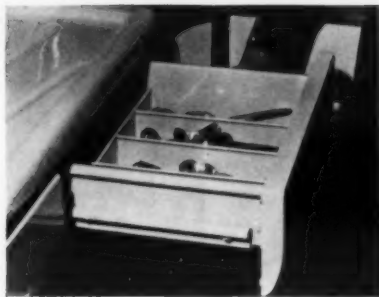
MEASURING EQUIPMENT that bends and dents, tips and spills is a poor investment. Inaccuracies can cause a cake failure. Sturdier, well-constructed measuring cups and spoons (right) cost a little more, save many disappointments by giving constant measure. Dry ingredients can be leveled off



ACCURATE LIQUID MEASURE from the cup at left would be a fortieth. It had to be filled to the brim, it was dented, and the handle was wobbly. The cup at right, whose full-mark is below the rim, is independent of cook's vagaries, shows its numbers plainly, and has a nondrip spout



SMOOTH, DURABLE FINISH on kitchen utensils prevents food from sticking. The turner at left, with its worn plating, retains part of the pancakes, contributes red chips from its painted handle. Handles at right are practically moistureproof, permanently riveted, firm, and clean



BOTTLE. BOTTLE. who has the opener? A deep drawer invites a hodgepodge of unrelated equipment; you feel guilty of wasting space unless you fill it. For small objects, a compartmented drawer (right) is self-policing, protects utensils. Dividers bought separately suit individual needs

New storage devices challenge old problems



CORNER CABINET shelves that rotate keep needed articles in circulation. The two-shelf type stores larger items in three-quarter circle, closed by its own quarter wall



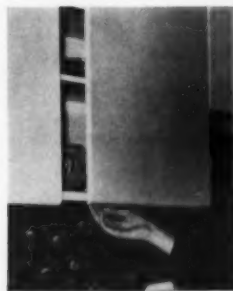
LAZY SUSAN cabinets put an end to delving, make the most of corner footage. Wide openings facilitate use and cleaning. Three-shelf units hold an amazing number of articles



ANYTHING SPILLED in this kind of drawer is quickly wiped out with a sponge. There are no seams, corners, crevices to catch dust or food particles. It is a molded container



NO TUG, NO STOOP impede the user of a roll-out, pop-open garbage can. In several versions, it hides in its cupboard until wanted, then appears, lid up, when door is opened



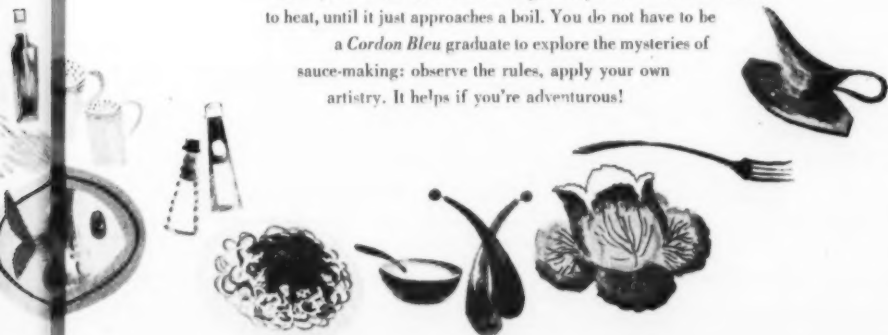
CABINET DOORS that open at a touch allow quick freedom of action. Their flat, smooth surfaces clean in an instant. Today's doors, with or without pulls, need no coaxing

Sauce Sorcerer



"Double, double toil and trouble; Fire burn, and cauldron bubble," chanted the witches in Macbeth, as they tossed in "scale of dragon and tooth of wolf." Let no evils befall your sauces: there are fairer means to cast a spell!

The witches' formula, though more elaborate, was far less tempting than those charted on the next page. Our purpose, unlike theirs, is to take the bane out of *saucery*, and encourage good spirits. Without muttered incantations, you can add excitement and mystery to everyday meats and vegetables by following a few simple rules and stirring up a bit of imagination. A sauce skillfully blended imparts heightened flavor and aroma to the food it accompanies, enhancing its texture by contrast or by subtle similarity. A tart fruit sauce, such as plum or apple, gives piquant contrast to fat meats like pork and duck; satiny *Mornay Sauce*, with its hint of cheese, seems to make bland egg dishes taste more egglike, mild fish more reminiscent of the sea; while spicy, sour *Orange Sauce* brings out the pungency of wild game, and restores the zest to cold meats. A good sauce gives, not double trouble, but double pleasure, for a very small amount of toil; it delights with its own flavor while calling attention to its partner's. A pasty, lumpy sauce, or the wrong sauce gives only a muddy impression. The fat must thoroughly penetrate flour for thickening, either by slow cooking before adding liquid, or by preliminary blending of flour and butter into a paste (see next page). This lessens occasion for lumps in all sauces and gravies. Stir constantly while liquid is added to flour and fat; scrape the pan. To make sure that starch particles expand and cook, thickened sauce should be boiled one minute. For concentrated flavor and velvety consistency, lower the heat, cook slowly, stir often; melt in a pat of butter just before serving. Add salt discreetly, for saltiness increases as sauce decreases. Early inclusion of spices and wines merges flavors; last-minute additions tend to preserve their individual identity. To prevent curdling when adding egg yolks, remove sauce from heat; add to yolks one tablespoon of cream, two of the hot sauce; stir vigorously into sauce and return to heat, until it just approaches a boil. You do not have to be a *Cordon Bleu* graduate to explore the mysteries of sauce-making: observe the rules, apply your own artistry. It helps if you're adventurous!



RECIPES FOR THICKENED SAUCES

BUTTER PASTE

$\frac{1}{2}$ cup butter

1 cup flour

Blend butter and flour into a smooth paste with pastry blender or food fork. Store in covered container. Add as specified to recipes charted below.

TO USE BUTTER PASTE

For blond sauces: heat liquid to scalding; add butter paste, stirring constantly, and boil for 1 minute. Season to taste.

For brunet sauces: heat butter paste slowly in heavy saucepan or skillet, stirring constantly until evenly browned and bubbly. Add liquid, seasoning, and stir.

For thin sauces: $1\frac{1}{2}$ tablespoons butter paste to 1 cup liquid.

For medium sauces: $2\frac{1}{2}$ tablespoons butter paste to 1 cup liquid. (For casserole dishes and some gravies.)

For thick sauces: 4 tablespoons butter paste to 1 cup liquid.

For richer sauces: part cream as liquid; or stir in 2 egg yolks and heat without boiling.

SAUCE	INGREDIENTS	BUTTER PASTE	MILK	CONSOMME	CHICKEN OR FISH STOCK	CREAM	SHERRY	MINCED ONION	ALSO USE
OLIVE-ALMOND (crunchy) for fish loaf or soufflé		1½ tbs.	1 cup						$\frac{1}{4}$ cup sliced stuffed olives, $\frac{1}{4}$ cup slivered almonds, salt, pepper, $\frac{1}{4}$ cup mayonnaise
WINE (crunchy, dark) for ham		1½ tbs.		1 cup			2 tbs.		Brown butter paste. Add consomme and $\frac{1}{4}$ teaspoon thyme, 1 bay leaf, crumbled, $\frac{1}{4}$ cup raisins or slivered almonds
VEWBUG (smooth) for crab meat, lobster		4 tbs.	1 cup			1 cup	$\frac{1}{4}$ cup	1 tsp.	Nutmeg, salt, pepper, cayenne. Before serving, stir in 2 beaten egg yolks, cook 1 minute, do not boil. Add 2 tablespoons brandy before serving
CREOLE (spicy) for shellfish		1½ tbs.						1 tbs.	Brown butter paste. Add $1\frac{1}{2}$ cups tomatoes, $\frac{1}{4}$ cup each of chopped green pepper and celery, 5 chopped olives, 1 tablespoon capers
CURRANT JELLY (tart and sweet) for cold meat, game, roast		1½ tbs.			1 cup		1 tbs.	1 tbs.	Marinate in place of stock, if you have it. Add 2 tablespoons tomato paste, $\frac{1}{4}$ cup currant jelly, salt, freshly ground pepper to taste
WHITE WINE (smooth, tangy) for fish; baked, poached, broiled		2 tbs.			1 cup	$\frac{1}{4}$ cup		1 tsp.	Fish stock. Add 2 cloves, 1 bay leaf, $\frac{1}{4}$ cup sautéed or Riesling, $\frac{1}{4}$ cup finely diced celery, salt and pepper
A LA KING (creamy) for turkey, chicken, ham		2½ tbs.			$1\frac{1}{4}$ cups	$\frac{1}{4}$ cup	1 tbs.		$\frac{1}{4}$ cup chopped pimiento, $\frac{1}{4}$ cup sliced, sautéed mushrooms, $\frac{1}{4}$ cup slivered almonds, salt, pepper, egg yolks
CURRY (pungent, peppery) for fish, meat, eggs		3 tbs.			$1\frac{1}{4}$ cups	$\frac{1}{4}$ cup		$\frac{1}{4}$ cup	1 tablespoon curry powder, a little thyme, 2 tablespoons lemon juice, salt, pepper
ORANGE (spicy) for game, duck		3 tbs.			1 cup		2 tbs.		Marinate in place of stock, if you have it. Add 1 cup orange juice, 1 tablespoon grated orange rind; salt, paprika, freshly ground pepper, cayenne to taste
MORNAY (smooth) for eggs, fish		1½ tbs.	1 cup			$\frac{1}{4}$ cup			$\frac{1}{4}$ cup finely grated Parmesan or Swiss cheese, $\frac{1}{4}$ teaspoon basil, salt, pepper, and 2 egg yolks



FOR A SOLID HIT TRY NEW YEAR'S PUNCH

HOT SHERRY EGGNOG

2 cups sherry
1 quart milk
¼ teaspoon cinnamon
½ cup sugar
4 egg yolks
¼ teaspoon nutmeg
¼ teaspoon vanilla

Scald milk in double boiler. Beat egg yolks slightly with sugar, nutmeg, cinnamon, and vanilla. Stir a little of the hot milk into egg mixture and return all to double boiler. Cook, stirring 3 to 4 minutes. Stir in sherry slowly. Heat thoroughly and serve. (If egg-nog separates on standing, beat with rotary beater.) Serves 12.

NEW YEAR'S PUNCH

2 ounces lime juice
2 ounces grenadine
6 ounces lemon juice
12 teaspoons sugar
6 ounces grape juice
1 fifth blended whiskey
6 ounces rum
2 quarts carbonated water
1 pint cold strong tea

Stir thoroughly. Pour over large block of ice in punch bowl and allow to cool. Garnish with slices of fresh apple, fresh pineapple, orange and lemon, and a few whole cloves. Serves 20.

NEW YEAR'S BISHOP

1 fifth blended whiskey
1 fifth brandy
4 ounces apricot brandy
2 sticks cinnamon
5 whole cloves
½ pound fine granulated sugar

Place all ingredients in a saucepan over heat until quite hot but not boiling. In the meantime, stud two apples and oranges with whole cloves. Roast before open fire or in oven until juices boil. Float in hot liquid. Serve in punch cups using cinnamon sticks as stirrers. To top off, dust with grated nutmeg. Serves 20.

NEW YEAR'S EGGNOG

1½ bottles brandy
½ pint rum
10 fresh eggs
5 quarts milk
1 pound granulated sugar

Beat egg yolks and whites separately. Mix rum, brandy, sugar, and yolks in punch bowl. Stir slowly while gradually adding milk. When well mixed, grate over nutmeg, and float islands of beaten egg white on top. Cool in a container of cracked ice. Makes 7 quarts. Serves 30.

SOUTHERN EGGNOG

12 eggs
½ pound sugar
4 ounces rum
1 pint blended whiskey
1 quart heavy cream

Separate yolks and whites of eggs. Add sugar to the whites, beat until stiff. Beat yolks separately, add the whites and beat both together. Whip heavy cream until firm, add slowly to eggs. Add whiskey and rum. Continue beating until egg-nog is completely and thoroughly blended. This should be firm enough to eat with a spoon instead of drinking. Serves 12.

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TABLE: 42 in. wide, 25 in. long with drop leaves down; opens to 108 in. with drop leaves up and four filler leaves added. CHAIRS: two types — regular and pull-up; choice of covers. BUFFET: 34½ in. high, top — 10 by 48 in., two drawers, sliding door linen cabinet. CHINA: Over-all height, 65 in.; case, 18 in. deep, 36 in. long; depth of china, 12 in.; case has two 4-in. high drawers, center section linen closet.

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WOMEN AT WORK

A miniature carpet sweeper is for busy junior misses who want to be a big help to Mother. It really sweeps! Just like Mother's, it has a rubber bumper to protect the furniture, and a handle that stands upright when you leave it. *Little Queen* is approximately \$2.69, at Marshall Field & Co. and other department stores.

Hard facts . . . on hardwood flooring

[Continued from page 39]

Such irregularities as knots and streaks are of chief consideration in determining grade of wood. Also considered are imperfections in processing.

For strip flooring there are uniform grading rules established by the manufacturers in co-operation with the U.S. Bureau of Standards. Rigidly enforced, these rules assure the consumer of getting flooring that meets all official specifications. While industry-wide grading regulations do not exist for plank, parquet, and block flooring, individual producers apply strict grading practices patterned after the high standards established for strip flooring.

While space does not allow discussion of all grades of wood available, since strip flooring is the choice of most persons, it is worth recording grades in that class. Oak in unfinished stock can be obtained in three grades of quarter-sawn wood (clear, sap clear, and select), four grades of plain-sawn (clear, select, No. 1 common, and No. 2 common). Hard maple, beech, and birch come in three standard grades, with maple available also in special grades of all white stock, beech and birch produced in special grades of all red stock. Pecan is available in seven grades, including all-red, all-white stock.

A discussion of flooring types should include as well a few remarks on finishes to be applied after installation. Varnish and shellac are the traditional finishes, along with lacquer. A new development called floor seal or penetrating seal is particularly durable, being resistant to chipping, scratching, and staining. A floor so treated should last for

years without the need of refinishing. A colorless seal is used in finishing a floor in a natural tone. When a deeper shade of floor is desired, an appropriate colored seal can be employed.

Waxing and polishing are vital in prolonging the life of the finish and giving the hardwood a gleaming, well-groomed appearance, which will be easy to keep clean. It is important to use wax recommended specifically for floors of hardwood. Such wax is available both in paste and in liquid form.

Routine care is important if floors are to be kept at their best. First, go over floors each day with a dry, untreated dust mop (do not use an oil mop). Twice a year—often if floors bear heavy traffic—clean and wax them. It is not necessary to scrub with soap and water. In fact, it is much better *not* to do so. Water, especially if used frequently on the floors, may mar the finish and raise the grain of the wood. Use a wax base preparation made especially for cleaning hardwood floors. Stubborn spots usually can be removed by rubbing with a water-dampened cloth and mild soap, with a cloth soaked in naphtha or mineral spirits, or by rubbing lightly with fine steel wool.

Should the floors, in time, begin to show their years, they can be restored to original beauty either by cleaning and simple refinishing, or by a more thorough reconditioning, including sanding. Correctly installed, finished, and maintained, however, the latter treatment rarely is necessary. If the owner treats his hardwood floors properly, they will treat him to a lifetime of flooring beauty and satisfactory service.

Air-conditioning: year-round comfort

[Continued from page 61]

central system—combining heating and cooling—in a new-house installation will cost about \$1 a square foot of conditioned space for the cooling equipment, over and above the cost of the heating system. That means that the initial cost for the cooling equipment installed in seven average rooms—a house of 1,500 square feet—would be about \$1,500. This is, roughly, \$200 per room, as against \$300-\$400 a room for room coolers. This, at best, is an average figure and will run less for a smaller home. When included with a new home, cooling may add no more than \$5.00 or so to monthly payments. There are many variables which must be determined locally—climate, type of house construction and insulation, design of house, availability of water for cooling, and labor costs. The householder interested in year-round air-conditioning should consult a qualified local expert.

Several forces are at work which promise even better prices. Production volume is one factor. Another is the growing recognition on the part of builders that the added cost of more insulation, shading of windows, use of double glazing and other construction features can be offset by lower initial cost of the smaller unit required and lower operating costs. Thus far, residential cooling units popularly used for whole-house cooling are the so-called five-ton, three-ton, and two-ton. The ton is the standard unit for measuring refrigeration capacity and a new term for the householder to add to his vocabulary. It is based on the amount of heat which would be absorbed by a ton of ice melting in 24 hours. For an average 1,500-square-foot house, a three-ton unit would be used. However, the trend is toward smaller systems.

Operating costs depend on a whole host of variables, among them climate, how well a house is insulated and protected from

the sun, how many children run in and out, the cost of power (electricity or gas), how cool a temperature is maintained, how the condenser is cooled, and maintenance costs. A climate with long-lasting hot spells causes a heavier cooling demand than an area where the heat is intermittent. Continuous automatic operation usually is less expensive than to turn a system off and on; yet many people follow the latter practice in the belief they are saving money. The type of system installed makes a difference. As already pointed out, squeezing the water out of the air can be every bit as important as cooling the air. The colder the temperature at the cooling coil, the more water there is squeezed from the air. Most systems are limited in the coldness they can maintain at the coil by the fact that they cannot send back into the home air that is too deeply chilled and still maintain comfort. One system solves this problem by blending the chilled air automatically with room air, tempering it so that it is comfortable for the occupants of the home, yet dehumidifying it to the maximum degree. Operating costs with a system like this can be lower because comfort in the home can be maintained at a relatively higher temperature since humidity is low. Room units usually are air-cooled and their operating costs are relatively higher because they must operate at a higher condensing pressure—which means less efficiency. It takes more power to do exactly the same job.

As an average figure for a year-round central system, the cost of operating a three-ton cooling unit—a system adequate for a seven-room house, for a six-month cooling season—is between \$90 and \$120, or an average of \$15 to \$20 a month during the summer. This figure presumes that some type of water-saving device, such as a cooling tower

[Continued on page 92]

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Air-conditioning: year-round comfort

[Continued from page 91]

or evaporative condenser, will be used in the refrigerant condensing process. This is common practice in the South where cooling requirements are severe. Farther North, we find water-saving devices used less, but operating cost is still low, because of the shorter periods of operation.

Both the Veterans Administration and FHA want expense of this type to be as low as possible or they will not approve the addition of air-conditioning equipment in the lower-price house. When FHA insures a mortgage, it wants to be sure a person will be able to pay, and it has established equations for matching size of mortgage against income. Thus far, because year-round air-conditioning is so new that a solid experience pattern has not yet been established, FHA has been ultraconservative by ruling that the operating cost of air-conditioning units, as determined locally, will be considered as other operating costs in determining eligibility of a home for a loan. The rule of thumb in most areas is that the minimum income of a loan applicant must be four times the shelter expense. As applied by some local authorities, however, this rule requires a person to have an additional income for 12 months of the year equal to four times the monthly air-conditioning cost. This means that while it only costs an average of \$15 or \$20 a month for the cooling season—say six months of the year—some authorities are requiring additional income of \$60 to \$80 a month for the whole year. Modification of this policy seems in order. Builders and air-conditioning manufacturers argue that the operating costs of air-conditioning usually are offset by other savings—savings in doctor bills, in cleaning bills, to name only two. And even if not given advantage of these savings, they say, it would be more just to add only actual operating and maintenance costs for the cooling season.

It is less expensive to air-condition a new house than an old one. When a house is loosely constructed or poorly insulated, faults show up quickly, and are more expensive with cooling than with heating. Roof or attic floor insulation is important in winter to save the heating dollar, but it is an absolute necessity if the house is to have summer cooling. Windows should be shaded. In a new house, a wide overhang on the roof will accomplish wonders; in an old house, if there is no overhang, protection of wall and windows from the sun can be a problem. In old houses as well as new, it is particularly important to protect the south and west walls and windows. Double glazing is important—a big, unprotected glass area on the west can use up a big share of the cooling capacity of an air-conditioning system during a hot summer afternoon.

Then, if the house has a forced warm-air system, it must be analyzed to see whether it can handle cooled air satisfactorily. Cold air is heavy and an ordinary low-velocity baseboard outlet, such as is found with many warm-air systems, won't give the proper air diffusion. It will be drafty along the floor and temperatures in the room will be uneven—a cold layer at the bottom and warmer layers above. Houses with the blower-type of outlet can be converted easily to year-round air-conditioning. In others, you can add cooling and get a certain amount of summer relief—but the distribution of the air and the temperature likely will be uneven.

What about the cost of conversion? To add cooling to an existing forced warm-air heating plant may require a few alterations and additions in the duct system. Heavier service electric lines probably will be necessary. On an average, these extras might increase the cost for a conversion job as much as \$100 to \$400 over the figure for a new combined system installed at one time.

Under control

[Continued from page 65]

occupancy. Climate requirements may vary from one group of rooms to another. Then, too, regardless of how good a thermostat may be, it can only measure the temperature in the room in which it is located. The best solution is to design the heating system to fit the home's natural heating areas and to provide thermostat control for each zone.

The problem of determining the number of zones varies with the type of heating system, the design of the home, and the living habits of the occupants, obviously a job for a heating engineer. In general, a zone control system applied to a forced warm-air heating system works this way. Each zone thermostat accurately senses and swiftly signals zone temperature changes to its respective damper motor, thus controlling the volume of warm air entering each zone. The damper located in the supply air duct controls the flow of air within the system.

Another control, called the reset control, measures the need for higher or lower furnace temperatures, according to changes in outdoor and indoor temperature. As outdoor temperature drops, this control raises the furnace temperature to meet the higher demand from each zone. When outdoor temperature rises, it lowers the furnace temperature. Thus, in this system, the outdoor control varies the furnace temperature to match the heat demand of the structure as a whole. Then the volume of air flowing to each zone is varied by each

zone's thermostat to provide the exact amount of heat required in each zone. All types of panel-heating systems lend themselves exceptionally well to zone operation. An electronic system can be effectively used to control temperature needs for each zone. In a hot-water system the boiler may be kept at a constant temperature, or may be varied by modulating outdoor control operating the burner. Each zone-control system operates a zone-circulating pump whenever heat is required.

In any discussion of temperature controls, too much emphasis cannot be placed on the importance of anticipating future needs when in the planning stage. Just as wiring and plumbing needs for expansion are most economically and efficiently handled if taken into consideration at the outset of building or remodeling, the control system you install now should be adaptable for additions and change-overs in the future. For example, a forced warm-air heating system can usually be transformed into an all-year air-conditioning system by providing a cooling unit in addition to the heating unit already installed. The automatic-control system that activates certain things in your heating system can be adjusted to activate other things in a cooling system. An all-year conditioning system guarantees air circulation, temperature and humidity control, and clean, filtered air in winter and summer, in answer to requirements which the homeowner determines by setting thermostat and humidity controls.



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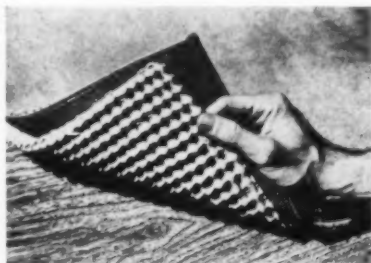
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[Continued on page 95]

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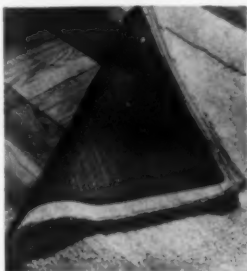
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Assets underfoot lighten overhead [Continued from page 94]

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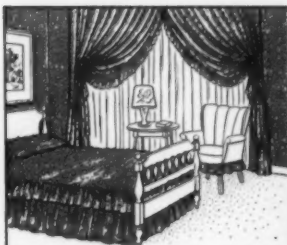


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\$39.50
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MR. FIXIT

LIVING For Young Homemakers' building and home repair experts will help you solve your problems on this page every month. If you have an immediate emergency, a stamped, self-addressed envelope will bring you a prompt reply. Questions about equipment and building materials will be answered frankly and honestly according to the results of our research.

Q. I have been told that any of the standard commercial household bleaching agents used in washing are just as effective for bleaching wood as wood bleaches sold in paint stores. Is this true?
A. W. N.

A. Any household bleaching solution will do a fair job in bleaching wood should a commercial wood bleach be unavailable.

Q. My husband plans to build a snack bar between our kitchen and dining area. Would you tell me what the proper height for such a bar should be? **R. M.**

A. The height depends on the type of seat you will use: if high stools are to be used, 36"-38" is recommended height of bar; if regular kitchen chairs are to be used, the height should be the same as that of your present dining or kitchen table, that is to say, approximately 30 inches.

Q. We are in the process of building a new home with frame construction, and the question of insulation has come up. Would you advise four inches of insulation between wall studs or are two inches sufficient? **T. R.**

A. We suggest the two inches, and it should be installed so that there is a two-inch space between the inside face of the sheathing and outside face of the insulation batt. There should be a vapor seal facing the inside of the house.

Q. I would like to build a set of concrete steps leading to our kitchen door. How deep and how wide should a foundation for the steps be? **H. L. B.**

A. A foundation or footing for the steps should be about six inches larger all around than the steps and should be, roughly,

five inches deep. Bottom of footing should be below frost line.

Q. How would I go about erecting a clothes pole in back of our home? I'd prefer to use pipe rather than an unattractive and heavy wood one. **C. F.**

A. Use an inch-and-a-half galvanized pipe; dig a hole a foot in diameter and a foot deep, set end of pipe in it, and fill all around pipe with concrete. Brace the pipe so it remains vertical till concrete sets.

Q. What is the best way to close up an old stovepipe opening in our kitchen wall? **W. W.**

A. Cut a round disk of tin or iron slightly larger than diameter of hole, force it into the opening to depth of one inch. Over this, trowel on cement or asbestos cement until even with the wall surface.

Q. I live in a very old house, badly in need of insulation. Could it be insulated without disturbing the interior walls? **L. S.**

A. Yes. Any good insulating contractor can do the job without disturbing the interior walls. Fill insulation is blown in through holes cut in the exterior walls, and holes are covered when the job is completed. Usually it is impossible to note where holes were cut.

Q. Our new home, which we are building ourselves, will have a 36" crawl-space beneath the floor instead of a full basement. Should we insulate the heating pipes passing through? **W. P.**

A. Do not insulate the pipes if the crawl-space is going to be weather tight. This will help to heat the first floor and save fuel. Otherwise, insulate pipes.



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SPADE AND TROWEL

If you have a gardening problem, LIVING For Young Homemakers' garden experts will help solve it for you. Queries of general interest will appear on this page every month. For a prompt reply to more specific and individual problems, send us a stamped, self-addressed envelope.

Q. Would you recommend a ground-cover plant to be used under evergreen trees? **A.** W.

A. *Pachysandra*, evergreen myrtle, periwinkle and English ivy are all excellent possibilities.

Q. We have great quantities of wood ash from our fireplace. Can this be used in our garden? How should it be spread? **M. K.**

A. Yes, wood ash is a good soil nourisher. Store until spring in a dry place. Then spade into the soil at the rate of 4 or 5 pounds per 100 square feet.

Q. When and how should my Paul's Scarlet climbing rose be pruned? Last summer it bloomed and many new shoots were formed. E. G.

A. In very early spring cut out only two or three of the oldest shoots, leaving the rest of those which flowered last season. Train the new shoots as replacements. Repeat this pruning every spring before growth starts.

Q. The leaves of my house geraniums have been turning brown and then falling off. What causes this, and is there anything I can do about it? **F. A.**

A. Frequently the cause of this is a lack of potash in the soil. Try a moderate application of a standard "complete" plant food.

Q. At what stage should I remove the small bulbs which form at the sides of my two-year-old amaryllis? **N. A. B.**

A. Separate the bulbs just before any new growth starts.

Q. There are a good many lady-beetles on and around my house plants. Should I spray to get rid of them or are they harmless to plants? **D. P.**

A. Not only are they harmless, but these beetles are very definitely useful because they feed on aphids and other plant insect pests.

Q. Moss grows so thickly on my shady lawn that in some places it seems to be choking out the grass. Is there a remedy for this situation? W. S. N.

A. Poor drainage and infertile soil are the most frequent causes of such a situation. Try remedying them. An application of fine-ground limestone may help, too.

Q. I am fond of Boston ferns, but never seem to have any luck in growing them indoors. Have you any suggestions for their care? S. W. O.

A. Too dry air may be your trouble. Try sprinkling the foliage twice a day with cool water. Also, the soil may not be right. For growing Boston ferns we recommend a mixture of 4 parts garden loam soil, 4 parts leaf mold, 2 parts coarse sand, and 2 parts dried cow manure (from garden-supply store).

Q. Is there a spray or other product which can be used to kill grass and weeds in our flower bed? **H. D. M.**

A. Yes, there are several, but they would also kill all of the other plants. Periodical, old-fashioned weeding is the only remedy we know.

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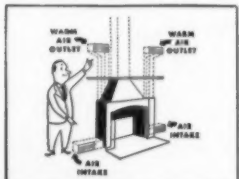
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STORES IN YOUR VICINITY featuring

the merchandise in this issue are here listed for your convenience. All prices quoted are approximate and subject to change. Your shopping will be simplified if you identify the merchandise as having been shown in the January issue of LIVING for Young Homemakers.

The following stores are featuring A. Brandt furniture as seen on pages 62-63.

Alabama
Delaney's, Inc., Mobile

Arizona
Dorris-Heyman Furn. Co., Inc.,
Phoenix

Arkansas
Arkansas Carpet & Furn. Co.,
Little Rock

California
J. W. Robinson Co., Los Angeles
John Breuner Co., Oakland
John Breuner Co., Sacramento
John Breuner Co., Stockton

Colorado
Home Furn. Co., Colorado Springs
American Furn. Co., Denver

Connecticut
The Nassau Furn. Co., Hartford
The Chamberlain Co., New Haven

Florida
Jones Bros. Co., Jacksonville
Burdine's, Inc., Miami

Illinois
Cohn Furn. Co., Peoria
House of Lindberg, Inc., Rockford

Indiana
Wolf & Dessauer, Fort Wayne
Adams & Co., Indianapolis

Iowa
Yunker Bros., Inc., Des Moines
Yunker-Davidson's, Sioux City

Kansas
Newman Dry Goods Co., Inc.,
Arkansas City
Buckner Furn. Co., Coffeyville
C. A. Karlan Furn. Co., Topeka

Kentucky
Bensinger Outfitting Co.,
Louisville

Louisiana
Hemenway-Johnson Furn. Co.,
Alexandria
Hemenway-Johnson Furn. Co.,
Baton Rouge
Hemenway-Johnson Furn. Co.,
Lake Charles
Hemenway-Johnson Furn. Co.,
Shreveport

Michigan
J. L. Hudson Co., Detroit
MacDonald & Co., Inc., Flint

Minnesota
Weyand Furn. Co., St. Paul

Mississippi
Rice Furn. Co., Jackson

Missouri
Robert Keith, Inc., Kansas City
Lammert Furn. Co., Inc., St. Louis
Heer's, Inc., Springfield

Montana
Elliott's, Inc., Billings

Nebraska
Orchard & Wilhelm Co., Omaha

New Jersey
Knos Bros., Inc., Rahway

New Mexico
American Furn. Co., Albuquerque
Bryson-Tanner Furn. Co., Clovis

Ohio
H. & S. Pogue Co., Cincinnati
The Halle Bros. Co., Cleveland
Rossiter-Jarrett Harmon Co.,
Dayton

Oklahoma
Harbour-Longmire Co.,
Oklahoma City
Mayo Furn. Co., Inc., Tulsa

Oregon
Meier & Frank Co., Portland

Pennsylvania
Joseph Horne Co., Pittsburgh

Tennessee
Miller Bros. Co., Chattanooga
Miller's, Inc., Knoxville

Texas
McAfee's, Inc., Amarillo
Karotkin Furn. Co., Austin
Anderson Furn. Co., Dallas
American Furn. Co., El Paso
Ellison Furn. & Carpet Co.,
Fort Worth
Suniland Furn. Co., Houston
G. A. Stowers Furn. Co.,
San Antonio
Stratton-Stricker, Waco

Utah
Crawford & Day, Salt Lake City

Virginia
Miller & Rhoads, Inc., Richmond
Thurman & Boone Co., Inc.,
Roanoke

Washington
Frederick & Nelson, Seattle
The Crescent, Spokane

West Virginia
Palace Furn. Co., Clarksburg

Wisconsin
Kunzelmann Easer Co., Milwaukee

Wyoming
Harris Furn. Interiors, Casper
Harris Furn. Co., Cheyenne



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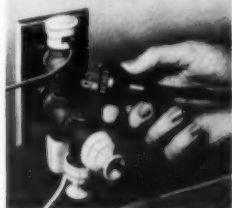
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Get a new plot
off to a good start

[Continued from page 81]

other shallow-rooted plants, such as most annuals, the humus should remain near the surface. Humus may also be added by growing a crop of winter rye, rye grass, or clover, to be dug under when a few inches tall. This, of course, requires several months. Commercial dried manures add some humus to the soil, but are more valuable for their fertilizer content. They do, however, make an excellent addition to commercial humus. A "complete" fertilizer or plant food is one that contains all three of the chief plant nutrients, plus some of the less important ones. Most complete fertilizers are quick in action, and are usually applied (3 to 5 pounds a 100 square feet) at the time of planting, or to growing plants. In the preparation of new land, it is generally beneficial to apply superphosphate. This, too, may be added, in the form of potash, $\frac{1}{2}$ to 1 pound a 100 square feet. Both of these are slow acting and will build up the plant food reserve in the soil.

A firm foundation: Following these few suggestions will enable the new homeowner to get off to the right start in developing his grounds. He will have a firm foundation on which to build, and later on, as his planting develops, he can give special treatment to special areas. If he wants a white clover lawn for instance, or a special bed for irises or some other lime-loving flower, he can add more lime to these sections. Or for rhododendrons, azaleas, and other acid-loving flowers—which may have been languishing in a back fill saturated with lime around the base of his house—he can use additional acid leaf mold and peat moss to provide a sufficiently acid soil. The important fact is that he will have the soil under control, ready to do a good job of growing the plants he puts into it; and the satisfaction of knowing that he won't be wasting time and money on plants that barely live and drag along, and which eventually will have to be done over again.

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And listen, Mabel, don't let anyone tell you an imitation! A lot of ventilators look like Bio-Fan, but only Bio-Fan has the patented blade that combines the volume of a fan with the power of a blower. Another thing too—No other ventilator has a nine-speed switch like Bio-Fan. Honestly, Mabel, it's just as easy to regulate my Bio-Fan with that switch as it is to control the speed of my car.

It's just like Dick says, Mabel—no modern kitchen is complete without a Bio-Fan. And when we decided to put one in the bath, he said "It takes more than plumbing to make a good bathroom." Isn't that cute, Mabel?



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YOUR GUIDE TO THIS ISSUE

The following items appear in special features in this issue. ALL PRICES QUOTED IN LFYH ARE APPROXIMATE AND SUBJECT TO CHANGE. Write to LIVING For Young Homemakers, 575 Madison Avenue, New York 22, for listing of the stores nearest your home.

MEET A HOUSE BEHIND THE SCENES

Living room	Pages 26-35
Sofa	\$115.00
Armless chairs (each)	\$49.95
Occasional chair	\$34.95
Nest of tables	\$62.00
Step table	\$63.00
Bench—The Herman Miller Furniture Company	\$72.50
Valdemar fabric (per yd.)	\$2.98
Havana rug—Sanford Rug Company (per sq. yd.)	\$7.95
Raymor Manufacturing Division:	
Single planter lamp	\$19.95
Double planter lamp	\$27.50

Dining area	Page 31
Chairs (each)	\$23.50
Dining table	\$96.00
Buffet	\$168.00
Eastham Daisy wallpaper (per single roll)	\$3.30
Eastham Daisy matching fabric (per yd.)	\$3.90

Master bedroom	Pages 32-33
Headboard	\$49.00
Double dresser	\$169.00
Junior dressers (each)	\$59.00
Chair	\$34.95
Jana Due fabric (per yd.)	\$2.98
Havana rug—Sanford Rug Company (per sq. yd.)	\$2.95
Vanity lamps—Raymor Mfg. Division (each)	\$26.50
Pee-Gee milk glass lamp—P. G. Greenspan & Co., Inc.	\$4.95

Child's room	Page 34
Juvenile bed	\$74.50
Table and stools	\$32.50
Play screen	\$19.95
Bookcases (4 units)	\$59.50

Study-den	Page 35
Catalina sofa-lounge	\$129.50
Oak desk	\$74.50
Desk chair	\$26.50
Seaweed fabric (per yd.)	\$2.98
Woolcraft Embossed rug	\$34.65

MORE THAN MEETS THE EYE

Living room	Pages 42-53
Sofa	\$119.00

Armchairs (each)	\$99.00
Armless chair	\$49.00
Winchendon Furniture Corp.:	
Low bench	\$12.95
Round coffee table	\$19.75
End tables (each)	\$12.95
Heritage-Henredon Furniture, Inc.:	
Nest of tables	\$89.50
Shutter-front chest	\$189.50
Tonga print fabric (per yd.)	\$2.49
Malabar fabric (per yd.)	\$2.49
Black & brass lamp	\$33.50
Red & black lamps (each)	\$21.50

Breezeway	Page 47
Chaise longue	\$21.75
Settee	\$38.95
Folding chairs (each)	\$27.95
Round table	\$19.95
End tables (each)	\$4.90
Chair	\$9.95
3-piece barbecue set	\$23.80
Twiltex rug (9 x 12)	\$26.95
Lamps (each)	\$20.00

Dining area	Page 48
Tearart	\$59.50
Dining table	\$52.25
Chairs (each)	\$21.00

Kitchen	Page 49
5-piece dining set	\$59.95

Master bedroom	Pages 50-51
Single dresser	\$169.50
Bench	\$44.00
Double bed	\$49.50
Square stool	\$29.50
Chaise longue—Southern Chaise Co.	\$44.00
Calais print fabric (per yd.)	\$2.49
Malabar fabric (per yd.)	\$2.49
Milano fabric (per yd.)	\$2.75
Beautyrest mattress & box spring (complete)	\$139.00
Gray lamp	\$17.00
Beige lamp	\$21.30

Child's room	Page 52
Twin beds (each)	\$119.00
Beachcraft furniture:	
Desk	\$89.50
Captain's chairs (each)	\$24.95
California Casual rug (per sq. yd.)	\$4.95
Somerset print fabric (per yd.)	\$2.49
Malabar fabric (per yd.)	\$2.49
Tripod lamp	\$17.50

Bath	Page 53
Shower curtain & window curtains	

(complete)	\$16.39
Towels by Martex	

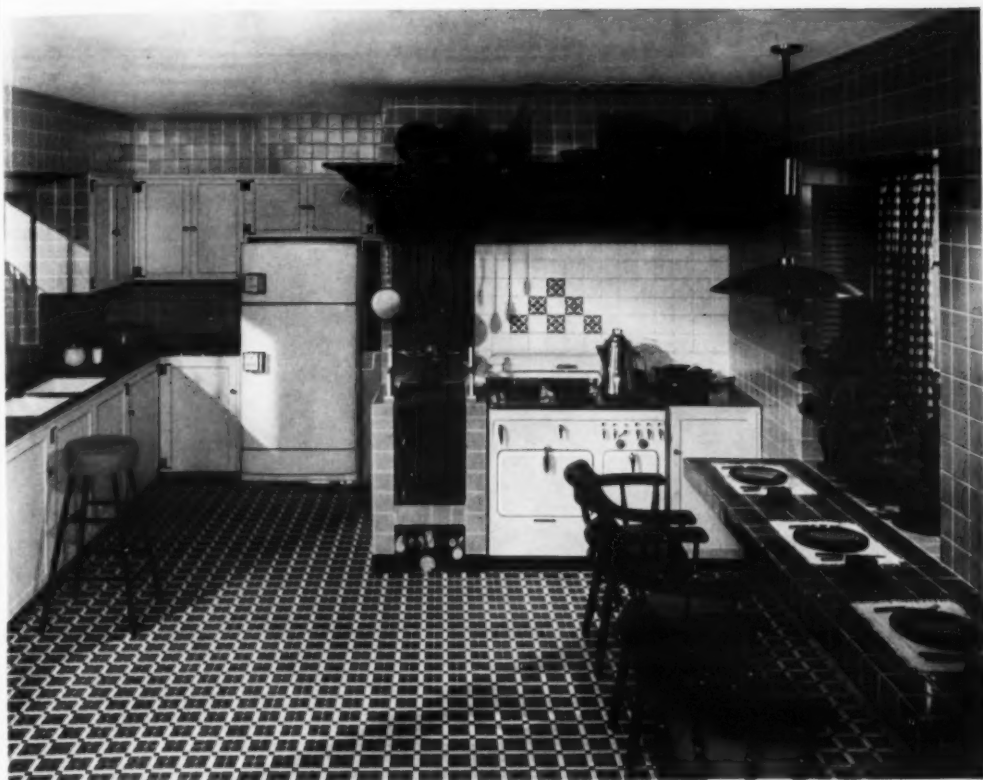
Den-study	Page 53
Sofa-bed	\$101.00
Dillingham Mfg. Company:	
Step table	\$39.95
Coffee table	\$34.95
Armless chair	\$49.00
Desk-chest—Mengel Co.	\$139.50
Black chair	\$21.00
Wood & brass lamp	\$27.50
Black metal lamp	\$11.50
Havana rug (per sq. yd.)	\$7.95
Texture print fabric (per yd.)	\$1.98

A ROOM THAT NEVER SAYS DON'T

Pages 62-63	
Armchairs (each)	\$79.95
Bench-table	\$65.00
Dining-coffee table	\$109.00
Side chairs (each)	\$29.95
Desk	\$63.00
Occasional chair	\$58.00
Studio bed	\$298.00
Commodore (each)	\$57.50
Bookcase	\$69.00
Everlast Fabrics, Inc.:	
Pembroke striped fabric (per yd.)	\$2.95
Castia cloth (per yd.)	\$2.00
Intermezzo rug (per sq. yd.)	\$9.50
Norseman—North American Lacey Co. (per yd.)	95c
Brise-bise heading (per yd.)	20c
Wrought iron lamp	\$35.00
White lamps (each)	\$17.95
Desk lamp	\$17.50
Sponges Ripple rug cushioning (per sq. yd.)	\$2.95

A REMODELED BASEMENT IS AN ASSET UNCOVERED

Pages 76-79	
Billiard table.....	\$145.00
Falador—Holcomb & Hoke Mfg. Co. Inc. (54½ x 75½).....	\$92.00
Gay-Wai rug—Waite Carpet Company (12 x 18).....	\$71.95
Corner table.....	\$24.50
Lamp table.....	\$21.50
Single filler chairs (each).....	\$27.50
Double filler chair.....	\$37.50
Magi-Table—Meier & Pohlmann Furniture Co., Inc.....	\$79.50
Webcor Fonograf—Webster-Chicago Corporation.....	\$83.25



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